

NSCA Library Copy

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nsca
MEMBERS
HANDBOOK

A stylized illustration of a large, dark, textured rock formation or cave entrance. The rock has a rough, layered appearance with various shades of brown and black. It is positioned in the center-left of the frame. The background consists of a repeating red and white checkered pattern, similar to a picnic blanket. The overall style is graphic and modern.

national society for clean air

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CONTENTS

NATIONAL SOCIETY FOR CLEAN AIR	1
MEMORANDUM AND ARTICLES OF ASSOCIATION AND BYE-LAWS	
Memorandum of Association	2
Articles of Association	5
Bye-Laws	17
HONORARY OFFICERS	22
THE COUNCIL OF THE SOCIETY	22
NSCA STAFF	24
WHO'S WHO 1982/83	25
ANNUAL REPORT AND ACCOUNTS 1981/82	46
DIVISIONAL MEMBERSHIP AND REPORTS	
Division 1 - Scotland	56
Division 2 - Northern Ireland	57
Division 3 - Northern	57
Division 4 - North West	58
Division 5 - Yorkshire & Humberside	60
Division 6 - West Midlands	62
Division 7/8 - East Midlands and Eastern	63
Division 9/10 - London & South East and Central Southern	65
Division 11 - South West	68
Division 12 - South and Mid Wales	70
SMOKE CONTROL AREAS	72
DIRECTORY OF ORGANISATIONS - GREAT BRITAIN	79
DIRECTORY OF ORGANISATIONS - OVERSEAS	89
GUIDE TO FILMS AND FILMSTRIPS	98
DIRECTORY OF CONSULTANTS	114
TRADE DIRECTORY AND BUYER'S GUIDE	
Alphabetical Entries	120
Classified Entries	131
ADVERTISERS	
Quality Environment Ltd	119
Central Electricity Generating Board	139

NATIONAL SOCIETY FOR CLEAN AIR

The National Society for Clean Air (NSCA) is a non-governmental voluntary organisation and a registered charity. It is one of the oldest environmental groups in the UK (foundation: the Coal Smoke Abatement Society of 1899). It has excellent and long-established contacts with central/local government, with government agencies, with professional bodies, with industry, with other environmental groups, and with the press. It is a founder member of the International Union of Air Pollution Prevention Associations, and provides the Secretariat for the Union. It is an Associate Member of the International Association Against Noise.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities (metropolitan, district and county councils), universities and other educational establishments, corporate bodies representing learned and professional institutions, the fuel industries, and other industrial companies.

THE SOCIETY'S OBJECTIVE is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants, having due regard for the implications for other aspects of the environment.

THE SOCIETY'S PRINCIPAL ACTIVITIES ARE:

Organising Conferences and Technical Training Workshops.

Holding national and regional meetings.

Making representations to Government, other Authorities and Industry, both as a consulted body and on its own initiative, on all matters relating to air pollution and noise, including: legislation drafting, statutory controls, standards, technical concerns, local and national issues.

Publishing: conference and technical proceedings, books, reports, papers and educational material. The Society's journal 'Clean Air' is published quarterly.

Operating an Information Service and Library.

ORGANISATION

The Elected Council of the Society, with a number of reporting Committees, governs the organisation and policies of the Society. An administrative staff, headed by the Secretary General, is employed at the Brighton Headquarters.

The Society has 12 Divisions throughout the UK, which arrange activities and meetings at regional level, and consider local issues. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1967
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL
MEMORANDUM OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".
2. The registered office of the Society will be situate in England.
- 3.(1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.
- (2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.
- (B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.
- (C) To encourage the adoption of methods to reduce and prevent pollution.
- (D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.
- (E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society's objects.
- (F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.
- (G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.

(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.

(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.

(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.

(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.

(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.

(M) To take all such other steps as will further the attainment of the above objects or any of them.

PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.

PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.

PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary or State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend

bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

THE COMPANIES ACTS 1948 to 1967
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:-

Words							Meaning
The Act of 1948	..	..	..	..	..	..	The Companies Act, 1948.
The Act of 1967	..	..	..	..	..	..	The Companies Act, 1967.
The Acts	..	..	..	..	..	..	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	..	..	..	..	..	..	The Bye Laws of the Society from time to time in force.
These presents	..	..	..	..	..	..	These Articles of Association.
The Society	..	..	..	..	..	..	The above named Society.
The Council	..	..	..	..	..	..	The Council for the time being of the Society.
The Office	..	..	..	..	..	..	The registered office of the Society.
The Seal	..	..	..	..	..	..	The common seal of the Society.
The United Kingdom	..	..	..	..	..	..	Great Britain and Northern Ireland.
Month	..	..	..	..	..	..	Calendar month.
In writing	..	..	..	..	..	..	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	..	..	..	..	..	..	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	..	..	..	..	..	..	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly

Delegate

notified to the Secretary General.

A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.

Words importing the masculine gender only shall include the feminine gender and vice versa and

Words importing persons shall include corporations.

Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Society for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership

INDIVIDUAL MEMBERS

(c)(i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-Laws of the Society.

LOCAL AUTHORITY MEMBERS

(d)(i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke

the appointment of not more than four Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council. (ii) For the purpose of this Article, the designation "Local Authority" shall be deemed to include "Health Authorities" and "Water Authorities" or such other like authorities as the Council shall from time to time admit for membership.

CORPORATE MEMBERS

- (e)(i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-Laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.
- (ii) An unincorporated body (including a firm) may not as such become a member of the Society, but it if desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-Laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

SUSTAINING MEMBERS

- (f) Any member who subscribes not less than the sum as prescribed in the Bye-Laws for this class of membership shall be eligible for admission as a Sustaining Member.

HONORARY MEMBERS

- (g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or

be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

STUDENT MEMBERS

(h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

APPLICATION FOR MEMBERSHIP

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

RESIGNATION OF MEMBERS

(j)(i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

- (a) whose annual subscription has remained unpaid for two successive years, or
- (b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or
- (c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

ANNUAL SUBSCRIPTIONS

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETINGS

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary General Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General

Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings other than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental omissions to give notice of a meeting to, or the non-receipt of such notice by, any person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:-

- (a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.
- (b) Appointing Auditors and fixing their remuneration.
- (c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original

meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or

office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a single term of three years

(c) Vice-Presidents shall not exceed six in number nor more than two be elected annually.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term "National or similar organisation" shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:-

(a) If he ceased to be a member or a Representative of a member of the Society;

(b) If by notice in writing to the Society he resigns his office;

- (c) If a receiving order is made against him or he make any arrangement or composition with his creditors;
- (d) If he becomes of unsound mind;
- (e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
- (f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36. (i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as herein-after provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

- (a) As to entrance fees (if any) payable in respect of membership of the Society.
- (b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
- (c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
- (d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
- (e) As to the manner in which the Elections of Officers and Council members shall be conducted.
- (f) As to the Geographical Divisions of the Society for electoral

purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37. (i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In case of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the

Council at which he shall be present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provision of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Ordinary Resolution dated the 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980, 5 October 1981 and 18 October 1982.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) INDIVIDUAL MEMBERS

- (i) The annual subscription payable by an Individual Member shall be not less than Eight Pounds. On attainment of the age of 65 on payment of the sum of Sixteen Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.
- (ii) Individuals may on payment of not less than one hundred and sixty pounds become Life Members of the Society.

(b) LOCAL AUTHORITY MEMBERS

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£113.00
100,001 to 250,000	£138.00
250,001 to 500,000	£167.00
500,001 to 1,000,000	£219.00

For each additional 500,000 or part thereof - £23.00

(c) CORPORATE MEMBERS and unincorporated bodies appointed in accordance with Article 4(e)(ii).

The annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:

- (i) Small local civic societies, colleges, schools and similar organisations - £14
- (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms - £80
- (iii) Industrial organisations - £98

(d) SUSTAINING MEMBERS

The annual subscription for Sustaining Members shall be not less than £200

(e) MEMBERSHIP - SPECIAL CASES

The Council shall have power to elect any applicant for Membership to

an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3(a) LOCAL AUTHORITY MEMBERS

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) CORPORATE MEMBERS

- (i) Corporate Members paying a subscription of £14 per annum shall each be entitled to appoint one representative
- (ii) Corporate Members paying a subscription of £80 per annum shall each be entitled to appoint three representatives
- (iii) Corporate Members paying a subscription of £113 or more per annum shall each be entitled to appoint five representatives
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members' Handbook of the Society.
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

- 1. Scotland
- 2. Northern Ireland
- 3. Northern: Cleveland, Cumbria, in part - Allerdale District Council, City of Carlisle and Eden District Council; Durham; Northumberland; Tyne and Wear.
- 4. North West: Cheshire; Clwydd; Cumbria, in part - Barrow-in-Furness Borough Council, Copeland District Council and South Lakeland District Council; Greater Manchester; Gwynedd; Lancashire; Merseyside.

5. Yorkshire and Humberside: Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. West Midlands: Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. East Midlands: Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.
8. Eastern: Essex, Norfolk, Suffolk.
9. London and South East: East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
10. Central Southern: Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
11. South West: Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
12. South and Mid Wales: Wales except for Clwyd and Gwynedd.

- (b) Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.
- (c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.
- (d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

- 6(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.
- (b) Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.
- (c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

- 7(a) The business of the Council shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.
- (b) The Council at its first meeting after election shall elect from its

own members, a Chairman, two Deputy Chairmen and the following Committees:

- (i) Finance and Administration Committee
 - (ii) Conference and Promotions
 - (iii) Technical
 - (iv) Parliamentary and Local Government
 - (v) Any other Committee considered by the Council to be necessary.
- (c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:
1. To implement Council policy
 2. To ensure that the programmes of the Standing Committees are comprehensive and appropriately interlocking
 3. To formulate proposals for policy changes
 4. To act on behalf of the Council in cases of urgency
 5. To report to the next following meeting of Council any action taken on its behalf.
- (d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.
- (e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8.(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the offices of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

- (b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.
- (ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President:	Naomi E.S. Sargant
Immediate Past President:	Lord Ezra, MBE
Vice Presidents:	Stanley E. Cohen, CBE, FRSA; The Rt. Hon. Michael Foot, MP Madron R. Seligman, MEP, BA
Hon. Treasurer:	B.H. Edwick
Chairman of Council:	W.B. Twyford
Deputy Chairmen:	Cllr. L. Poole M. Beaumont
Immediate Past Chairman:	H. Giblin

PAST PRESIDENTS: Dr. H.A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F.E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE; Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE; Sir Alan Wilson, FRS; Sir John Charrington; Sir Kenneth Hutchison, CBE, FRS; Mr. Stanley E. Cohen, CBE; Sir John Greenborough, KBE; Professor P.J. Lawther, CBE; Lord Flowers, FRS; Lord Ezra, MBE.

THE COUNCIL OF THE SOCIETY

Elected Divisional Representatives:

Scotland	E. Gibson, I. MacPherson, P.J. McPartlin
Northern Ireland	J.R. Lamont
Northern	Cllr. L. Poole, W.C.B. Robson, Cllr. T.W. Yellowley
North West	M. Dickinson, W.D. Gartside, D. Horner, I. Liversidge, J.B. Marsh, W.F. Snow
Yorkshire & Humberside	I.W. Barker, D. Greenwood, W.B. Twyford
West Midlands	Cllr. J.R. Griffiths, Cllr. G.T. Randall, T. Townsend
East Midlands	Cllr. R.S. Chamberlain, K.R. Enderby, D.F. Haynes, Cllr. Mrs. E.J. Inglefield
London & South East	J.J. Beagle, M. Beaumont, J. Clancey, W. Heron, Mrs. G.E. Naylor, Dr. M.J.R. Schwar, Professor R.S. Scorer, R.H. Shipman, G.C. Stubbs
Central Southern	K.B. Dorman, A.J. Rees, R.F. Shapter
South West	H. Dawson, Cllr. D.R. Lovelace, H. Nowell
South & Mid Wales	T. Jones, Cllr. J.R.P. Evans, Cllr. H.I. Thomas

Appointed Representatives of National Bodies:

British Gas Corporation: Dr. N.C. Ross
 British Steel Corporation: D.A. Harrison
 Central Electricity Generating Board: A.J. Clarke
 E.P.E.M.A.: K.S. Dunn
 Industrial Gas Cleaning Association: D. Morgan-Jones
 Institute of Petroleum: H.I. Fuller
 Low Temperature Coal Distillers' Association: R. Pane
 National Coal Board: R.W.C. Wheatley
 Solid Smokeless Fuels Federation: I. MacKay
 The Institute of Environmental Health Officers: R.W. Lander
 The Institution of Gas Engineers: Dr. F.E. Shephard
 Women's Solid Fuel Council: Miss K. Bradbury

STANDING COMMITTEES

Finance and Administration

Chairman: Cllr. L. Poole
 Deputy Chairman: K.S. Dunn

A.J. Clarke	Cllr. T.W. Yellowley
M. Dickinson	
H.I. Fuller	Chairman of C&P Committee
D. Greenwood	Chairman of Technical Committee
R.F. Shapter	Chairman of P&LG Committee

Conference and Promotions

Chairman: A.J. Rees
 Deputy Chairman: Cllr. R.S. Chamberlain

K.B. Dorman	Mrs. G.E. Naylor
K.R. Enderby	Cllr. G.T. Randall
I.R. Liversidge	Cllr. H.I. Thomas
Cllr. D.R. Lovelace	

Parliamentary and Local Government

Chairman: I.W. Barker
 Deputy Chairman: Cllr. Mrs. E.J. Inglefield

Cllr. J. Griffiths	H. Nowell
D.F. Haynes	R. Pane
W.J. Heron	T. Townsend
D. Horner	
T. Jones	<u>Co-opted</u>
R.W. Lander	R.W.C. Wheatley
J.B. Marsh	

Technical

Chairman: R.W.C. Wheatley
 Deputy Chairman: W.F. Snow

H. Dawson
 Cllr. J.R.P. Evans
 W.D. Gartside
 L. Hay
 I. MacPherson
 Dr. N.C. Ross
 Dr. M.J.R. Schwar
 Prof. R.S. Scorer
 Dr. F.E. Shephard
 R.H. Shipman

Co-opted

G. Barrett
 J.H. Boddy
 Dr. S.R. Craxford
 Dr. M. Hillis
 Dr. A.W.C. Keddie
 B. Lees
 R.J. Perriman
 P. Sutton
 Dr. W.C. Turner

Note: Honorary officers are ex officio members of
 all four standing committees.

STAFF

Secretary General: Air Commodore John Langston, CBE

Administration, Print and Sales of Publications

Administration Officer: Peter J. Mitchell

Secretary to Secretary General
 & Administration Officer, Council &
 Standing Committees Administration: Vanessa John

Membership, Publications Sales & Accounts,
 Conference etc. Registrations: Sue Miles

Editorial, Information Service and Library

Editor, Information Officer and Librarian: Jane Dunmore

Assistant: Penny Gilbert

Secretary: Tricia Sice

WHO'S WHO

NAOMI E.S. SARGANT, President of the Society. Naomi Sargent started life as a Market and Social Researcher with Gallup Poll, but after 12 years switched to teaching marketing and market research at Enfield College of Technology where she became more interested in the problems of researching for the public sector. During this time she was also a Councillor for a London Borough, serving on its Education Committee and as Chairman of the Children's Committee, and became actively involved with the social services and community relations. She joined the Open University at its inception, starting up its survey research department, and developing new strategies for the research and evaluation of media-based education systems for adults, and then took on a four year stint as Pro Vice-Chancellor for Student Affairs. She has written widely on the education of adults, and chaired the ACACE committee responsible for its policy document "Continuing Education: from policies to practice". She has also been heavily involved in consumer affairs, chairing the National Gas Consumers Council for three years, sitting on the National Consumer Council, and was a member of the Commission on Energy and the Environment. In 1981, Naomi Sargent was appointed Senior Commissioning Editor, responsible for education and programming, for Channel 4 TV. She is married with three sons.

LORD EZRA, MBE, Immediate Past President of the Society, was born on 23rd February, 1919, and educated at Monmouth School and Magdalene College, Cambridge. He joined the Army as a gunner in 1939 and was awarded the MBE in 1945 for wartime services. After demobilisation in 1947, with the rank of Lt. Colonel, he joined the Marketing Department of the National Coal Board. He was Chairman of the NCB from 1971 - 1982, in succession to Lord Robens. Lord Ezra is now Chairman of Associated Heat Services. He also holds the Chairmanship of Petrolex - a company concerned with North Sea development - and of the Keep Britain Tidy Group.

STANLEY E. COHEN, CBE, FRSA, Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first city to be so controlled, and also responsible for the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he

initiated action in 1964 to reduce pollution from motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made equipment.

RT. HON. MICHAEL FOOT, MP, Vice President of the Society. Michael Foot, Leader of the Labour Party since 1980, was educated at Leighton Park School, Reading, and Wadham College, Oxford, where he was President of the Union in 1933. He was Secretary of State for Employment from 1974-76, Leader of the House of Commons, 1976-79 and has been a member of the Labour Party National Executive Committee since 1971. He is the author of a number of publications, including Armistice 1918-39, Trial of Mussolini, Brendan and Beverley, The Pen and the Sword, Parliament in Danger, Aneurin Bevan (Vols. I & II), and Debts of Honour. Michael Foot has been MP for Ebbw Vale since 1960.

MADRON R. SELIGMAN, MEP, BA, Vice President of the Society, was educated at Harrow School and Balliol College, Oxford, where he was President of the Oxford Union in 1940. He has been Chairman of the Incinerator Company Ltd. since 1960 and Director of Fluor (GB) Ltd. since 1968, and Non-Executive Director of APV (Holdings) Ltd. since 1981. (Previously Executive). Mr. Seligman has been a Member of the European Parliament representing Sussex West, since 1979, and is Vice-President of the Energy and Research Committee of the European Parliament.

WILLIAM B. TWYFORD, Chairman of the Council of the Society, represents the Yorkshire and Humberside Division, NSCA. He has been actively involved with the work of the Society for the past 22 years, and has served as Vice Chairman of the Division, Honorary Secretary of the Division, Chairman of the Society's Conference and Promotions Committee and Senior Deputy Chairman of the Society's Council, before becoming Chairman in 1982.

HARRY GIBLIN is Immediate Past Chairman of the Council of the Society. He has spent all his working life in the solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 - a post from which he retires at the end of March this year - and in this position has helped Local Authorities in the implementation of their smoke control areas. Mr. Giblin has served on the Council since 1962. He was a long-standing member of the Parliamentary and Local Government Committee until he

became Chairman of the Finance and Administration Committee, 1980/1981.

CLLR. LEN POOLE, BEM, JP., represents the Northern Division, NSCA, and is senior Deputy Chairman of the Society's Council, and Chairman of the Finance and Administration Committee. He has been Chairman of the Northern Division and a Member of Council since re-organisation of local government, Chairman of the Environmental Health Committee, Middlesbrough B.C. (since re-organisation) and Member of South Tees Health Authority (representing Middlesbrough Council); Justice of the Peace (since 1965), Deputy Chairman Juvenile Court and Deputy Chairman Domestic Court. Cllr. Poole was responsible for persuading his Council to complete its domestic Smoke Control programme by the target date of 1979 (in spite of financial cut-backs). He is a Member of the Boroughs of Cleveland Pollution Group (Industrial Pollution) and an executive committee member of the Federation of Burial and Cremation Authorities.

MAX BEAUMONT, FInstF, CIMGTechE, MIPI, represents the London and South East Division, NSCA and is Junior Deputy Chairman of the Society's Council. He was educated at Dulwich College, joined the family firm as an apprentice steeplejack and served as pilot RAFVR 1940-46. He is founder member and past Chairman of the Environmental Protection Equipment Manufacturers Association, Past President of the National Federation Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health & Safety Group and British Flue & Chimney Mfgs. Assoc. He is a member of 18 BSI Technical Committees and a holder of 4 British patents. Max Beaumont is Chairman of F.E. Beaumont Ltd.

BRIAN HARRIS EDWICK, Honorary Treasurer of the Society, is Managing Director of F.E. Beaumont Ltd. He is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers.

IVOR W. BARKER represents the Yorkshire and Humberside Division, and is Chairman of the Society's Parliamentary and Local Government Committee. He is currently Director of Environmental Health, City of Sheffield, having formerly been with Manchester and with Leicester, where he held the post of Assistant Chief Environmental Health Officer with special responsibility for Pollution and Noise Control. Prior to his present appointment, he was Chief Environmental Health Officer with Bracknell District Council. He has written and presented papers on air pollution and

noise and in 1976 he attended Heathrow Fourth Terminal Public Inquiry as an expert witness on behalf of the Local Authority Aircraft Noise Council.

JOSEPH J. BEAGLE, MIEH, represents the London and South East Division NSCA. Mr. Beagle is a Divisional EHO with the London Borough of Hammersmith and Fulham and is responsible for Noise and Air Pollution Control matters including investigations into Lead Pollution.

MISS KATHLEEN BRADBURY represents the Women's Solid Fuel Council. She was elected Chairman of WSFC in 1980 having previously been Chairman of the North Western Region WSFC. Originally with the Ministry of Fuel and Power, she was appointed to the Women's Advisory Council on Solid Fuel and served until 1973 as their Education Officer. She is the author of the WSFC Textbook 'Solid Fuel in the Home' and has been associated with NSCA for many years.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA, and is a member of the Conference & Promotions Committee. He has been a member of the East Midlands Division for fifteen years and a Member of the Council of the Society for nine years. He has been a Member of the Ashfield District Council and Kirby-in-Ashfield UDC for seventeen years, was Chairman of the Kirby-in-Ashfield UDC Health Committee from 1971/74, and Chairman of the Ashfield DC Environmental Health Committee, 1974 to the present time. Cllr. Chamberlain was elected Chairman of the Central Nottinghamshire Community Health Council in February 1981 and became a member of the Central Nottinghamshire District Health Authority in 1982. He has served as Justice of the Peace for ten years.

JAMES C. CLANCEY, OBE, FIPHE, FIEH, FRSH (Hon), MIEEnvSc, MAmerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is Vice President and Chairman of Council of the Institution of Public Health Engineers; an Honorary Fellow and life Vice President of the Royal Society of Health and a past Vice President of the Institution of Environmental Health Officers. He was Chairman of the Council of the Society, 1975/76 and has for thirty five years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

A. JOHN CLARKE, represents the Central Electricity Generating Board. He is an Honours graduate in Mechanical Engineering of Loughborough Technical College. After serving with a commission in the Royal Engineers, he joined the British Electricity Authority in 1949, and held operational posts at several power stations. He joined Head-quarters in 1952 and began to specialise in air pollution problems. In 1961, he was appointed to head a small group dealing solely with environmental matters, and became Head of an expanded Environmental Section within the Planning Dept., CEGB, in 1978. (Now incorporated in Technology Planning & Research Division). Mr. Clarke has served on the Council of the Society since 1967, was Chairman of the Technical Committee 1972/78 and Chairman of the Council 1980/81. He currently serves on the Finance & Administration Committee.

HYLTON DAWSON is the Health and Safety Engineer, Rolls-Royce Limited, Bristol, where he leads a team covering all engineering and systems controls in health and safety work, including pollution, safety, environmental engineering, occupational hygiene, ionising radiations and noise. After an early introduction to acoustics, which has fascinated him ever since, he joined the aircraft industry in 1957 and after having been involved in jet silencer research, came to Bristol to lead a research team in aero acoustics. He is co-patentee of convergent plate and notched silencers for supersonic jet engines and is a past member of the Noise Research Committee of the Aeronautical Research Council. In 1971 he was awarded the President's Gold Medal of the Society of Engineers for a paper on Aero Engine Noise, presented at a conference on Engineering and Its Effect on the Environment. He is Chairman of the Avon Occupational Health Society and has written and lectured extensively in Europe and the Americas on his specialist subject. He has a particular interest in low frequency acoustics and is concerned with investigating generation mechanisms and means of reducing low frequency noise in gas turbine installations. Mr. Dawson is a member of the Technical Committee.

MAURICE DICKINSON, MIEH, MRSH, represents the North West Division, NSCA. He was Chief Environmental Health Officer for the Borough of Altrincham from 1957 to 1974, and the Metropolitan Borough of Trafford since Local Government Reorganisation. A Member of the Institution of Environmental Health Officers and a Member of the Royal Society of Health, he is keenly interested in all forms of pollution and is involved with the Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and at present serves on the Finance & Administration

Committee. He is also a Member of the Manchester Area Council for Clean Air and Noise Control.

KENNETH B. DORMAN represents the Central Southern Division, NSCA, and is a member of the Conference & Promotions Committee. He qualified as a Public Health Inspector (now Environmental Health Officer) in 1965 and was employed at West Bromwich, Gosport, Cambridge and currently at Slough Borough since 1973. He has been Deputy Borough Environmental Health Officer since January 1978.

KENNETH S. DUNN, CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers Association). He is Managing Director of the Incinerator Company Limited. In 1969 he joined INCINCO from Robey & Co. Ltd. of Lincoln, where he was an Engineering Director with a special responsibility for boiler development. He is a fuel technologist and has been a Member of EPEMA since its formation in 1972; he was elected Honorary Secretary of EPEMA in March 1973 and is also a Member of the Finance & Administration Committee.

KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He is City Environmental Health Officer, Peterborough City Council, and has been the representative of Peterborough City Council to the NSCA for 20 years, and a member of the East Midlands Division for 15 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference and Promotions Committee since 1974.

JOHN R.P. EVANS, ACP, MBIM, LRSC, represents the South and Mid Wales Division NSCA and is a member of the Technical Committee. As a Chemistry graduate, he has worked as an industrial chemist with I.C.I. Fibres and the British Steel Corporation. He taught for several years, and is currently Deputy Manager/Warden of an Adult Education Centre. Mr. Evans was elected a Member of the Rhymney Valley D.C. in 1976 and is Chairman of the Environmental Health & Licensing Committee. President of the Ebbw Vale Constituency Labour Party, he is also a prospective parliamentary candidate for Hereford.

HOWARD I. FULLER, MA, FInstPet, a Past Chairman of the Society, represents the Institute of Petroleum. Until retirement in 1981 he was a Principal Research Scientist at the Esso Research Centre, Abingdon, where for the last 16 years he concentrated on environmental matters. Amongst his other interests, he now

provides occasional technical consultancy services. Mr. Fuller has been a member of the NSCA Council since 1972, and serves on the Finance & Administration Committee.

WILLIAM D. GARTSIDE represents the North West Division, NSCA. He is currently Principal EHO (Pollution and Noise Control) with Rochdale MBC. After apprenticeship and several years in the building industry he qualified as a Public Health Inspector in 1957, Meat and Other Foods Inspector in 1958 and Smoke Inspector in 1959, subsequently being appointed as specialist pollution control officer with the former C.B. of Rochdale. He is a founder member of the Manchester Area Council for Clean Air and Noise Control and member of the noise advisory working group to that Council. Mr. Gartside is a member of the Society's Technical Committee.

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last three years he has been a Member of the Scottish Division, NSCA, and for the last five years, specialist Smoke Control Officer, City of Edinburgh District Council.

DEREK GREENWOOD, MEHA, MIWM, Director of Health and Housing, Kirklees MBC, represents the Yorkshire and Humberside Division, NSCA, and is a member of the Finance & Administration Committee.

CLLR. JOHN R. GRIFFITHS represents the West Midlands Division, NSCA, and is a member of the Parliamentary & Local Government Committee. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. For 20 years he was Senior Fire Control Operator for Hereford and Worcester Fire Brigade. He was first elected to Worcester City District Council in 1973 and re-elected in 1980. Gllr. Griffiths is Vice Chairman of the Environment Traffic Committee.

DAVID ANTHONY HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC.

DAVID F. HAYNES, MP, represents the East Midlands Division. Mr. Haynes, who was elected MP for Ashfield in the May 1979 general election has attended and spoken at NSCA Conferences

and has, since his election to Parliament, declared his intention of maintaining a close interest in the Society's work and aims. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

W. (BILL) HERON, MIEH, represents the London and South East Division, NSCA, and serves on the Parliamentary and Local Government Committee. Mr. Heron is Divisional Environmental Health Officer with Brighton Borough Council, responsible for noise and air pollution control matters, including smoke control, noise abatement zones and the monitoring of lead from road traffic.

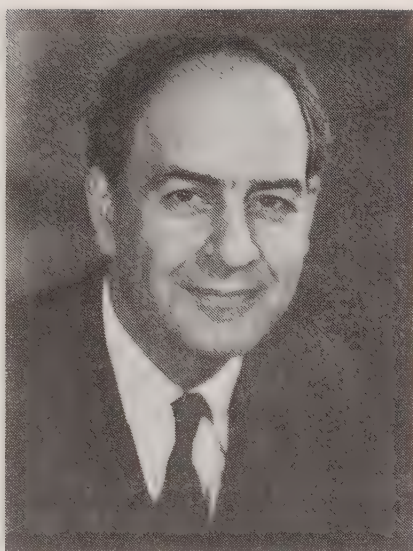
DEREK R. HORNER, CEng, represents the North West Division, NSCA, and is a member of the Parliamentary & Local Government Committee. Having gained an Hons. degree in Gas Engineering, he specialised in industrial gas applications before joining South East Gas as Commercial Sales Manager, and subsequently North West Gas. Mr. Horner is a Member of the Institute of Gas Engineering, a Member of the Institute of Energy, a Member of the Institute of Marketing and of the Chartered Institution of Building Services.

CLLR. MRS. ELIZABETH JANE INGLEFIELD represents the East Midlands Division, NSCA, and is a member of the Parliamentary & Local Government Committee. She was formerly Vice Chairman of Health Committee and Chairman of Housing Committee, High Peak Borough Council. She has been on the Divisional Council of the East Midlands Division for the past 7 years and is the present Chairman of the Derbyshire Advisory Council for Clean Air. Mrs. Inglefield is on the Management Committee of the Housing Centre Trust (North West Division) and a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. She is currently pursuing a 4-year course at Sheffield City Polytechnic.

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise, toxic waste disposal, etc. He is a Past Chairman of the Gwent Branch of the Institution of Environmental Health Officers and currently the appointed Hon. Secretary of the South & Mid Wales Division, NSCA.



THE PRESIDENT



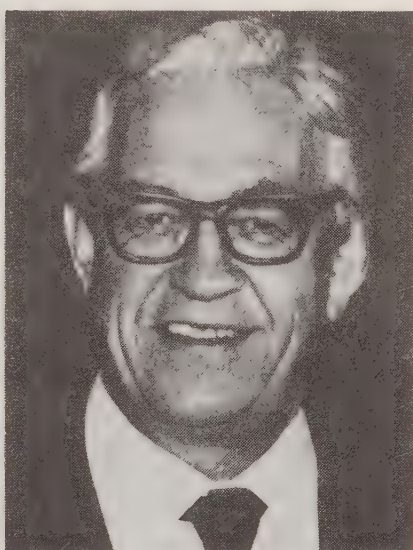
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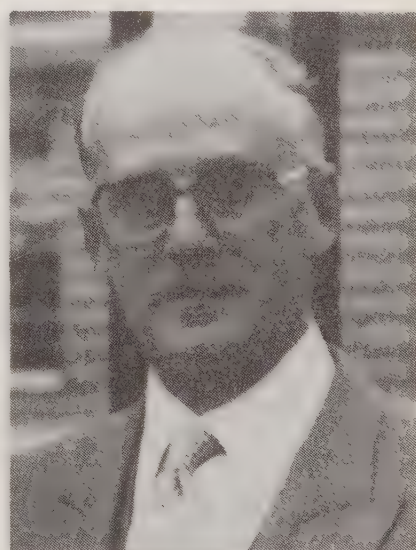
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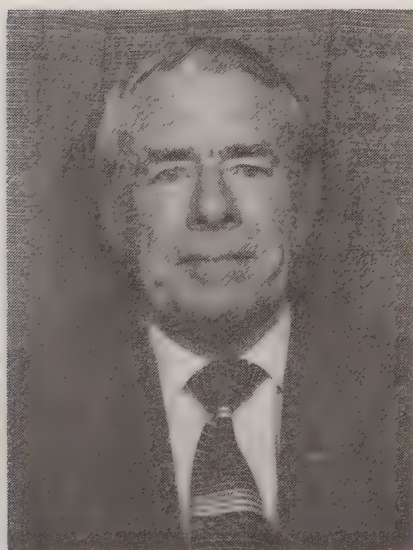
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M. SELIGMAN



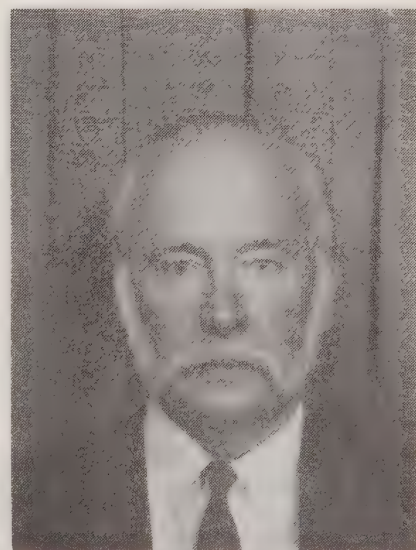
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H. GIBLIN



L. POOLE



M. BEAUMONT



B.H. EDWICK



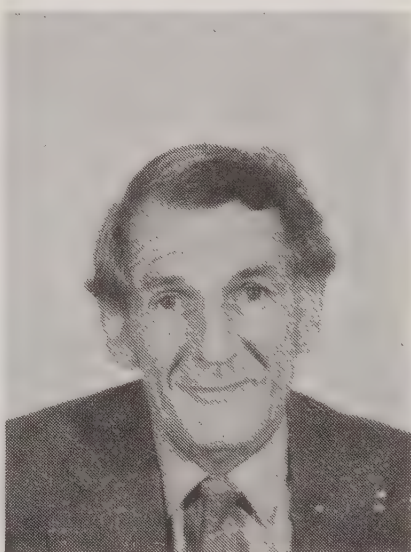
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J.J. BEAGLE



K. BRADBURY



R.S. CHAMBERLAIN



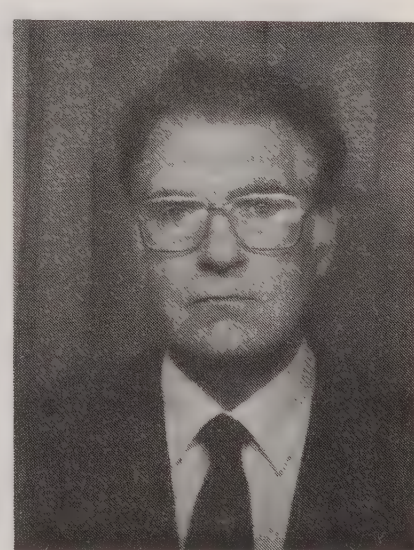
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A.J. CLARKE



H. DAWSON



M. DICKINSON



K.S. DUNN



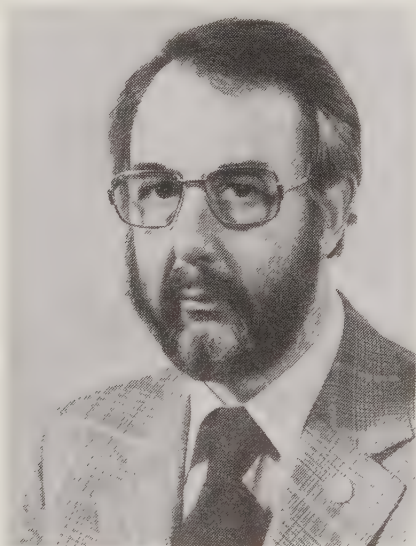
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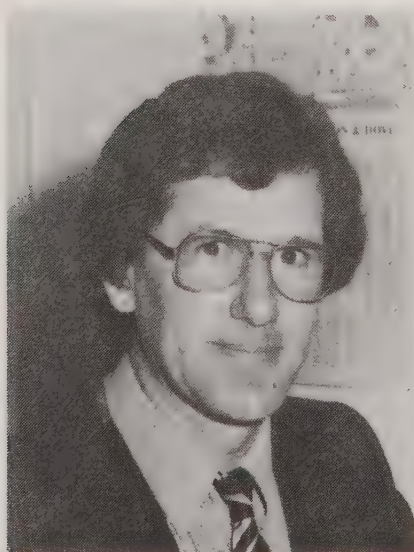
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F. HAYNES



W. HERON



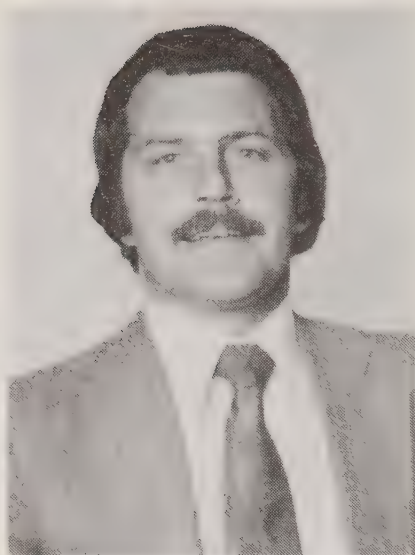
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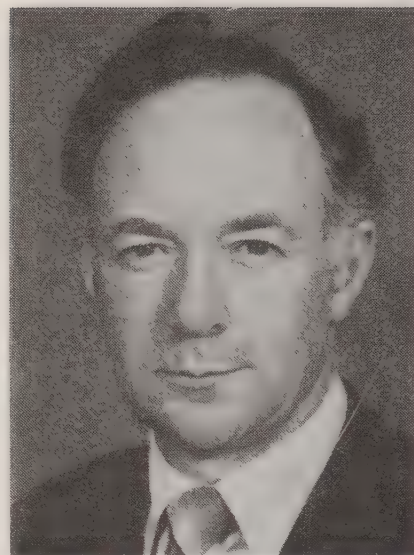
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T. JONES



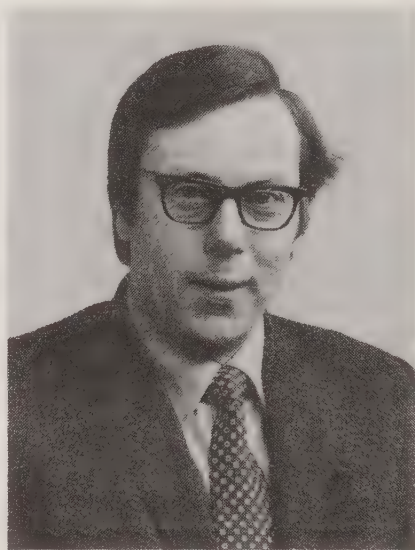
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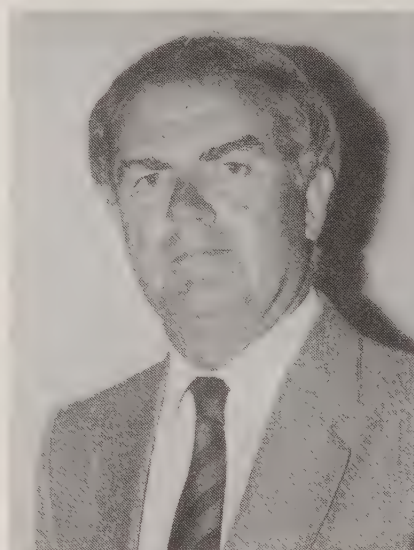
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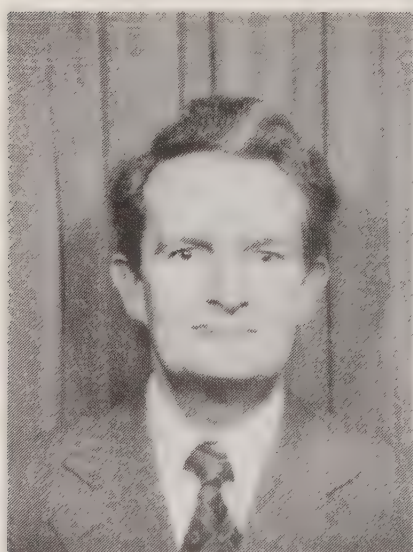
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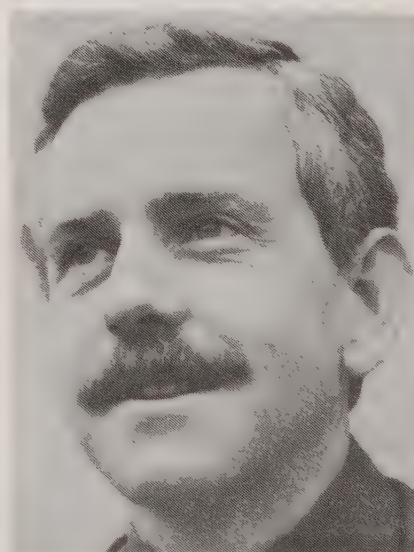
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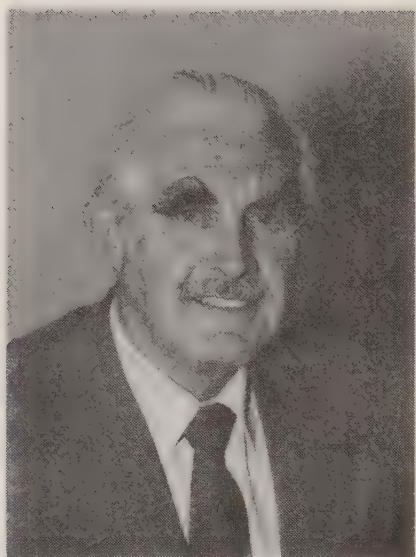
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G.E. NAYLOR



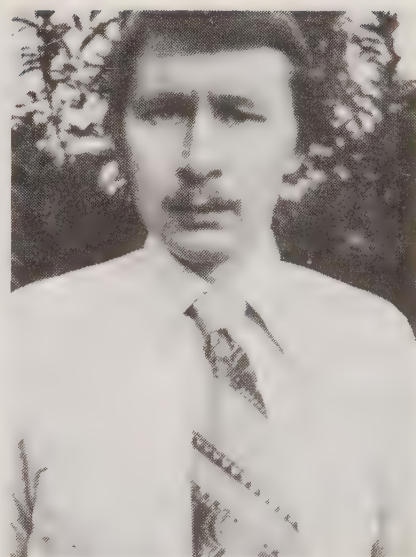
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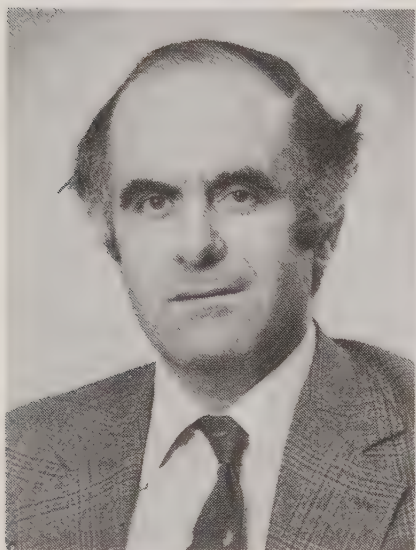
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G.T. RANDALL



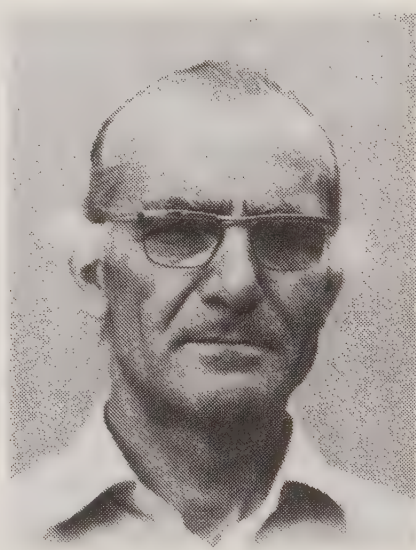
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DR. N.C. ROSS



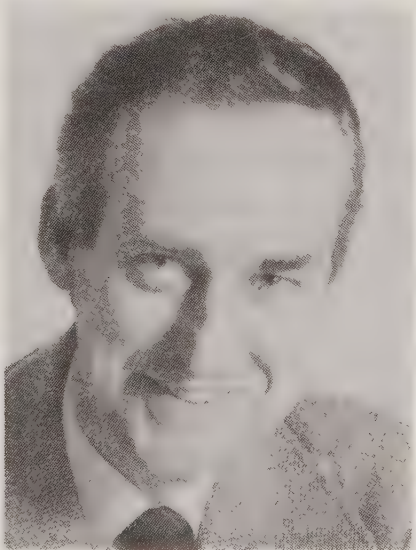
DR. M.J.R. SCHWAR



PROF. R.S. SCORER



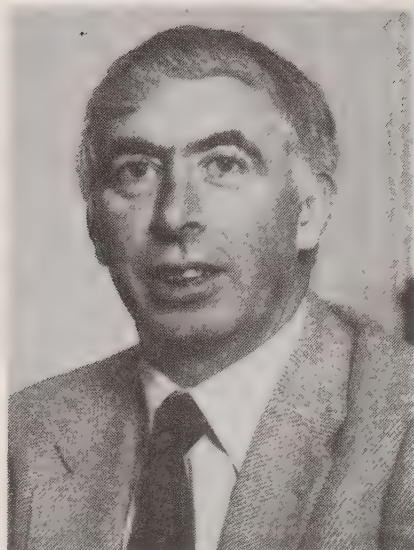
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DR. F.E. SHEPHARD



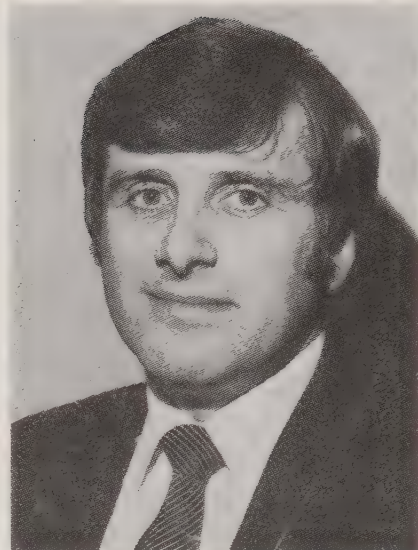
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W.F. SNOW



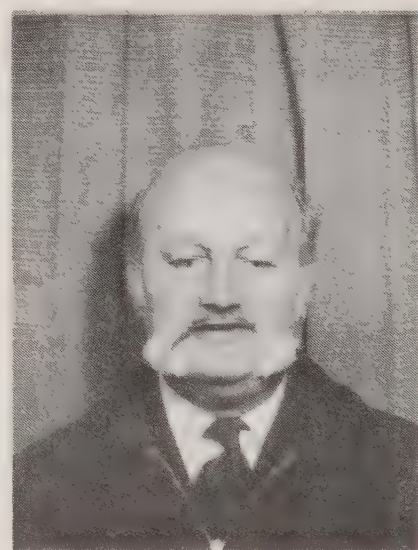
H.I. THOMAS



T. TOWNSEND



R.W.C. WHEATLEY



T.W. YELLOWLEY

JAMES R. LAMONT represents the Northern Ireland Division, NSCA. He is Honorary Secretary of the Northern Ireland Division of the Society. He was educated at the Royal Belfast Academical Institution, qualified as a Public Health Inspector in 1962, employed by Belfast County Borough and subsequently Down County Health Committee. On re-organisation of local government he was appointed Principal Public Health Inspector (Pollution Control) with Eastern Group Public Health Committee (a consortium of five district councils) and is currently Senior Environmental Health Officer with Department of the Environment (Northern Ireland).

R.W. (BOB) LANDER, FIEH, FRSH, MIWM, represents the Institution of Environmental Health Officers, and serves on the Society's Parliamentary & Local Government Committee. He is Chief Environmental Health Officer to Middlesbrough Borough Council. He currently serves on the Northern Divisional Council of the Society, and previously served on the East Midlands Divisional Council. He is a Fellow and Member of Council of the Royal Society of Health; a Fellow of the Institution of Environmental Health Officers; a Member of the Institute of Wastes Management and he is a North East Centre Council Member of this Institute; an EHO adviser to the Association of District Councils and represents this body on the Health and Safety Executive/Local Authority Liaison (HELA) Committee and Local Authorities Co-ordinating Body on Trading Standards (LACOTS).

IAN R. LIVERSIDGE, FRSH, MIEH, represents the North West Division NSCA, and serves on the Conference & Promotions Committee. Employed by Bolton MBC, he is the Council's Chief Officer in charge of the Environmental Health Division of the newly formed Environmental Services Department. He is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough continues to progress a phased programme of domestic smoke control and £60,000 is annually allocated to this work. Atmospheric heavy metal burden assessments are being done under the auspices of an Inner Urban Project to evaluate the impact of this pollution and build the results into the Borough's future strategic planning. Mr. Liversidge operates an Industrial Liaison Committee, which combines the talents of local industry and the Council and this body evaluates and tries to ameliorate the problems of local industry as a polluter. Within the boundaries of the authority is one of the largest and most modern motive power battery manufacturers, which is the subject of a continuous monitoring programme, and which achieves high

control standards with minimal impact on the surrounding environment.

CLLR. DENIS R. LOVELACE represents the South West Division, NSCA. He has been a Member of Bath City Council since May 1976 and was a candidate for the Somerset Euro-Constituency in the 1979 Euro-election. He is a past Assistant Secretary-General of the World Association of World Federalists and a sometime Local Groups Officer for the International Voluntary Service (UK). He is a member of the Society's Conference & Promotions Committee.

IAN MACKAY represents the Solid Smokeless Fuels Federation. Having joined the National Coal Board in 1948, he served in various departments, particularly marketing, and became District Sales Manager for Teeside. In 1970, he joined Associated Heat Services Limited as Sales Manager and in 1982 was appointed General Manager designate for the Solid Smokeless Fuels Federation. He was Chairman of the North East Coal Industry Society in 1980. Mr. MacKay is a member of the North East Fuel Luncheon Club and an associate member of the Institute of Marketing.

IAN MacPHERSON, BSc, FRSH, represents the Scottish Division, NSCA. He is a graduate of the University of Strathclyde and has served in Local Government for some twenty years. He is Divisional Officer, Air Pollution Division, Environmental Health Department, City of Glasgow DC. He serves on the NSCA's Technical Committee and is the President of the Scottish Division of the Society, having been a Member of the Society for some twenty years. He was a Member of the Clean Air Council for Scotland and is a Member of the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution.

JOHN B. MARSH, FRSH, MIEH, represents the North West Division and is a member of the Parliamentary & Local Government Committee. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post-war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 23 years. He is a Member of the Royal Society of Health and a Member of the Institution of Environmental Health Officers and has also been an Examiner on the IEHO Education Board for the last 14 years. With a keen interest in all forms of pollution and its prevention, he is a long-standing Member of the NSCA, the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution and a Member of the Manchester Area Council for Clean Air and Noise Control.

DIGBY MORGAN-JONES represents the Industrial Gas Cleaning Association. He is a Fellow of the Institute of Chartered Accountants in England and Wales, and Partner in the firm of Wenham, Major & Clarke. He has been Chairman of IGCA since 1972.

MRS. E.M.L. NAYLOR represents the London, South East and Central Southern Divisions. She has been associated with the Women's Solid Fuel Council for over 22 years and is the present Chairman of the London and Southern Region WSFC. Mrs. Naylor is a Member of the Royal Society of Health; Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council and Past President of the United Kingdom Federation of Business and Professional Women. She serves on the Society's Conference & Promotions Committee.

HOWARD NOWELL is Principal Environmental Health Officer with Bath City Council and represents the South West Division of which he is Hon. Secretary. He is keenly interested in all aspects of environmental pollution control and has represented his authority on numerous pollution related committees including the Avon Gloucestershire and Somerset Environmental Monitoring Committee of which he is Vice Chairman. Mr. Nowell serves on the Society's Parliamentary & Local Government Committee.

ROGER PANE, MInstM, represents the Low Temperature Coal Distillers Association. He is a Director of Coalite Group Limited, and Director, British Coke Export Sales Corporation Limited. He has been an individual Member of the Society for many years and served as an elected representative of the East Midlands Division of the Council of the Society. He currently serves on the Parliamentary & Local Government Committee. He is a Member of the Executive Committee of the SSFF and a representative on the Warren Spring Standing Conference of Co-operating Bodies.

CLLR. GEORGE T. RANDALL, ISM, represents the West Midlands Division, NSCA. He is Chairman of the West Midlands Division, and a Member of the Society's Conference and Promotions Committee. He has been a Member of Worcester City Council since 1966 and a Member of Hereford and Worcester County Council since 1974. He has lived in Worcester for the past thirty years and is a former employee of the Ministry of Defence.

ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local

authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. In 1978 he was elected as Honorary Secretary of London, South East and Central Southern Division, and he is Chairman of the Conference and Promotions Committee.

DR. NORMAN C. ROSS, BSc, PhD, CEng, FIGasE, represents the British Gas Corporation, and serves on the Society's Technical Committee. He graduated in chemistry from Aberdeen University where he also completed a PhD degree in 1960. He worked for six years in the rubber and plastics industry, mainly in the field of high temperature polymers. He joined the Watson House laboratories of British Gas in 1966 initially as a materials specialist and later became manager of the Coking & Combustion Division, with particular interest in constituents of combustion of gas. He is currently an Assistant Director of the Watson House Research Station.

DR. MIKE J.R. SCHWAR, PhD, MSc, BSc, DIC, MInstP, represents the London and South East Division, NSCA. He obtained his first degree in Physics and a PhD in Combustion Physics from London University following researches at Imperial College of Science and Technology, Department of Chemical Engineering and Chemical Technology. Dr. Schwar has worked for Thorn Electrical Industries, the University of Wisconsin and the Paint Research Association. In 1974 he joined the Greater London Council Scientific Branch as Building Physics Section Leader and since 1976 has been responsible for Air Pollution matters in the Environmental Science Divisions. He has presented various papers on air pollution and has addressed NSCA Conferences and Workshops. Dr. Schwar is a Member of the Technical Committee.

PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and South East Division, NSCA. He was Chairman of the Council of the Society 1978/79. His books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5. He was appointed as Lecturer (Meteorology) Imperial College, 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of

Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmos. Env.). He was a member of the Clean Air Council from 1968 until its demise and Chairman of CACs Technical Committee from its inception. He was an Alderman, London B. of Merton (1971/78) and on the Metropolitan Water Board 1971/74. Professor Scorer serves on the Society's Technical Committee.

RONALD F. SHAPTER, FIEH, represents the Central Southern Division; he was, before retirement, Chief Public Health Inspector of High Wycombe. He was a Local Government representative to the Society from 1956-1979, a Member of the Divisional Council from 1964, Honorary Secretary of the SE Divisional Council 1969/74 and Chairman of the London, SE and Central Division from 1977-1981. He has been a Member of the Council of the Society since 1969, formerly a Member of the Conference and Promotions Committee and now a Member of the Finance and Administration Committee.

FRANK E. SHEPHARD, BSc, PhD, FRIC, C.Chem, FRCS, CEng, FIGasE, represents the Institution of Gas Engineers. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. He is now an Assistant Manager responsible for the Environmental Studies Group within the Analytical Division of London Research Station. He also has a special responsibility for outdoor environmental matters within the R & D Division of British Gas. He is a member of the Institution of Gas Engineers Environmental Studies Committee, and also serves on the Society's Technical Committee.

R.H. (REG) SHIPMAN represents the London and South East Division, NSCA, and is a member of the Technical Committee. He joined Shell Mex and BP Ltd. in 1963 in the Industrial Fuels Division; he has spent many years specialising in the marketing and technical development of LPG, becoming the LPG Engineer for BP Oil Ltd. in 1976. Mr. Shipman was promoted to Senior Engineer in 1978 to cover all fuels and related environmental matters in the industrial market. He became Manager, Environmental Services in the Technical Development Services Branch of the Commercial Division in 1981. He is a Member of a number of environmental committees including those of the Institute of Petroleum, the CBI and the UK Petroleum Industry Association.

BILL F. SNOW, MIEH, MIWM, represents the North West Division, NSCA. He commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC, Carlisle. He was appointed district Public Health Inspector to Accrington BC in 1962 and Deputy Chief Public Health Inspector to Warrington RCD in 1969. He has held his present post of Chief Environmental Health Officer to Warrington BC since 1974. Bill Snow has been a member of the North West Divisional Council since 1976 and was elected Chairman, for a 2 year term, in 1981. He has served on the Council and Technical Committee of the Society since 1979.

GEORGE C. STUBBS, FIEH, represents the London & South East Division, NSCA. He is a life member of the NSCA, and is a retired Divisional Public Health Inspector, having a special interest in air pollution control. He was elected to the Council of the South East Division at its first meeting, and acted as Minute Secretary for many years; he was elected to the Council of the Society in 1961.

CLLR. HARRY I. THOMAS represents the South and Mid Wales Division, NSCA, and is a member of the Conference & Promotions Committee. He was first elected as a Councillor in May 1967 and for the past 6 years has been Chairman of the Environmental Health Committee to the Lliw Valley Borough Council. Having represented his Authority on the South and Mid Wales Division, NSCA, he was elected to the Divisional Committee 2 years ago. Councillor Thomas is also his Council's representative on the West Glamorgan Joint Environmental Pollution Committee, and is Chairman of the Gower Local Consumer Advisory Committee of the Welsh Water Authority.

TREVOR TOWNSEND, MIEH., represents the West Midlands Division and is a member of the Parliamentary & Local Government Committee. He is currently Principal Environmental Health Officer (Environmental Pollution and Health and Safety) with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, mainly specialising in environmental pollution. He was the Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control from 1975-1981 and is currently a lecturer and examiner for both the Environmental Health Officers Examination Board and the Royal Society of Health's Diploma in Air Pollution Control.

ROBERT W.C. WHEATLEY represents the National Coal Board. He was born in Berwick-upon-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief

Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he became Technical Marketing Director and subsequently Director (Administration and Technical). In 1983 he was appointed Director of Scientific Control. In this post he is responsible for the technical aspects of the Board's scientific service in all coalfields. He has specific responsibilities to the Board on a wide range of scientific matters which include environmental issues and the testing of new types of solid fuel appliances and equipment. He has been a member of the Technical Committee since 1964 and a member of Council since 1966.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected to the Newcastle-upon-Tyne City Council in May 1963 and is currently Lord Mayor of the City. He is a Member of the Health and Environment Committee and of the Hackney Carriages and Private Hire Sub-Committee. He was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977 and Vice Chairman again 1979-82. He currently serves on the Finance & Administrative Committee.

ANNUAL REPORT AND ACCOUNTS

ANNUAL REPORT 1981-1982

In common with my recent predecessors, I am delighted to report that the Society has had another very active year - although, as you may imagine, it has been far from an easy one. The continuing recession and continuing, albeit declining, inflation have affected virtually every aspect of our activities, while the rail strikes of February and July forced the postponement of no less than six meetings of the Standing Committees as well as other divisional meetings. But these problems apart, I am pleased to say that we have also had a productive year.

Of course, any assessment of productivity depends on the yardstick applied. In terms of, for example, the scope of the submissions put to Government and its agencies or the quality and extent of debate in Conference, Seminar or Committee, you will see that we have been amply cost-effective: similarly we have had good success in publicising our policies and complaints. On the other hand, if productivity is measured against Governmental commitment to vigorous programmes furthering the Society's objectives, it is only fair to point out that in this respect our expectations were minimal. In the light of its earlier decision to disband the Clean Air Council and last year's decisions to scrap the Noise Advisory Council and the Standing Commission on Energy and the Environment, the Government has declared its lack of interest in environmental matters - and in awarding priorities to the allocation of the nation's resources it is apparent that with certain exceptions, such as meeting EC Directives, it regards our air as being as clean and as noise-free as it is prepared to afford. It is against this background that the majority of the external events calling for action on our part should be viewed. None was new but all were further developments of well established issues.

The continuing lack of response by the Government to the 5th Report of the Royal Commission on Environmental Pollution "Air Pollution Control: An Integrated Approach", and the deep and unanimous concern of our membership that the Government's intentions for the future of HM Alkali and Clean Air Inspectorate may be leading towards the rejection of the conclusions and recommendations put forward in that Report, led your Council to seek a meeting with the Minister to discuss the matter. However, the request was turned down with the Minister writing (in February) that pending the Government's response to the 5th Report (which was very nearly complete), such a meeting would be unproductive. As I go to press in mid-September, there this Catch 22 situation currently rests. In the meantime we have invited the newly constituted Royal Commission to

consider whether the conclusions and recommendations reached in 1976 remain as relevant today as we believe them to be.

Smoke Control continues to make progress although the pace at which it is introduced continues to slow down. Of parallel concern is the further increase in the number of reports from all parts of the country of the illegal use of bituminous coal for domestic heating in smoke control areas. As you will hear during the Annual Conference, about 50% of all local authorities exercising smoke control responded to our survey of the problem, with 50% of these affirming its reality. In the light of this the Society has called for a clear statement of intention by the Government for the Clean Air legislation to be enforced and for a full programme of smoke control to be progressed on a national basis.

In March we published our policy statement on lead in petrol. This welcomed the decision of the Government to reduce further the lead content of petrol but called for lead-free petrol to be mandatory for all new cars at the earliest opportunity. Accepting that lead in petrol was only one source of lead in the human body the statement included the requirement for all other sources to be carefully monitored to ensure that all expenditure related to reducing body lead levels is optimised. Other important issues resulting in policy statements or requiring further action included: air pollution control through planning; air quality in enclosed spaces and in urban streets subjected to heavy concentrations of traffic; the adequacy of the existing powers available to local authorities to anticipate and control possibly excessive levels of pollution arising from the increased use of coal by industry. In May, following exchanges of letters with the Ministry of Agriculture, Fisheries and Food and the National Farmers Union, we announced the Society's policy on straw and stubble burning. All of these issues and many others were covered in our written evidence to the Royal Commission on Environmental Pollution which was published in full in the June edition of Clean Air. Finally, we responded to Governmental requests for comments on: in December, the Report of the Commission on Energy and the Environment 'Coal and the Environment'; in January, the Government White Paper 'Lorries, People and the Environment'; in July, the Building Regulations (Contents). As I said at the beginning, it has been a busy year.

As for our relationships with outside bodies, the Society continues to enjoy extensive representation on the Standing Conference of Co-operating Bodies and on the Air Pollution Monitoring Management Group. We are also represented on the Council for Environmental Conservation (CoEnCo) and its Pollution and Water Committees, and on Committees of the District Heating Associations. The Society has continued to provide secretarial services for the Environmental Protection Equipment Manufacturers Association (EPEMA). We also

exhibited in the International Environment and Safety Conference and Exhibition at Wembley in September.

As you are aware, the Society is a founder member of the International Union of Air Pollution Prevention Associations (IUAPPA) for which we also provide the secretariat. I was pleased to be able to represent the Society at the meeting of its Executive Committee in Sicily last October which, inter alia, adopted guidelines for the conduct of future World Congresses. These are held triennially and the 6th World Congress on Air Quality, which is being organised by the Association Pour la Prevention de la Pollution Atmospherique (APPA) is scheduled to take place in Paris from 16th - 20th May 1983. A number of papers have been submitted for presentation by members of the Society as well as by members from other national organisations, and I am hopeful that the Society will be well represented at this important event.

Since June 1980 the Society has also been an Associate Member of the Association Internationale Contre le Bruit (AICB) which held its 12th Bi-Annual Conference in Vienna in April in conjunction with the Austrian Noise Abatement Society. Mr. Hylton Dawson represented the Society at this Conference, at which he also presented a paper covering his work on low frequency noise. This reflected much credit on the Society particularly in view of the declared intention of many delegates to use the published data as a definitive criterion for the control of low frequency noise.

Turning now to our own affairs, I am glad to say that the general increase in activity in the Divisions which John Clarke referred to in his report last year has been maintained, albeit with one or two exceptions. The principle of Divisions organising their own Seminars or arranging the programme content for Teach-Ins and Workshops while using our Headquarters staff to provide the administrative backing has continued apace. On this basis, the South West Division organised a highly successful Teach-In on "The Economics of Pollution Control" at Bristol Polytechnic last December. Similarly, the Yorkshire and Humberside Division has done much of the groundwork developing the programme for our Spring Workshop on "Coal and the Community", to be held at Sheffield University next March, while the London and South East and Central Southern Divisions has organised a Teach-In on "Air Pollution Implications of Future Use of Coal" on 30 November 1982 in London. Despite headquarters' assistance functions on this scale involve a great deal of local effort, and I am sure you will agree that they deserve our utmost support - and the organisers our many thanks. A number of Divisions have also held special sessions on the topical issue of lead in petrol. Other Divisions have continued their practice of combining meetings with visits. And if I lack the space to mention the numerous other smaller meetings arranged by the Divisions throughout the year, many of which are reported in Clean

Air, I am sure that you will also agree with me that these are just as important in meeting the objectives of the Society as the grander events which hit the headlines.

As well as the Divisional activities, the Society has carried out its normal central programme. A two day Workshop which examined "Air Pollution - Local Problems and National Policies" was held at Nottingham University in March. It was very successful in terms of the content of the papers and the standard of debate; I am pleased to be able to report that it was also financially successful. We are indebted to John Clarke for the outstanding way he carried out the onerous duty of Moderator throughout both days of the Workshop.

As you may recall, the Council's policy is to hold the Annual Conference in Brighton every third year. 1982 was such a year and it drew an attendance of 251 delegates which, considering the financial climate, was not unsatisfactory. I am pleased to say that without exception the presentations and discussions were highly acclaimed, while the facilities of the Brighton Centre were unanimously deemed to be first rate.

We are most grateful to the Earl of Avon, the Government spokesman in the House of Lords on the Environment, Transport and the Arts, for his address at the Opening Session in which he highlighted the role of the National Society in relation to the Department of the Environment. Having said that the Government sees the Society continuing to take the leading part it has played in the past, he continued "We value the continuity of effort over the years, the consistency and integrity of the Society's purpose and its approach that reflects the need to maintain a carefully considered balance between reducing pollution and the economic health of industrial and commercial activities. We welcome too the continuing broadening of the Society's interests beyond air pollution to cover noise and other matters". Clearly, we could not have put it better ourselves!

Following Lord Avon we listened to the Presidential Address by our new President, Naomi McIntosh, and were delighted to hear her rousing words urging us to spread the net of the Society as widely as possible to promote education at all levels so that "the present and future adult population may be more aware of the environmental implications of Government decisions on energy policy, and the effects of their own choices as consumer." As she begins her second year in office her words have proved to be even more relevant. Since this report is necessarily written a few weeks ahead of the AGM, I would like to thank her for the interest she has taken in the Society throughout the year and say how much we are looking forward to seeing her at Llandudno. I would also like to thank our Vice-Presidents for their good offices on our behalf. Mr. Stanley Cohen, CBE, has been active in several ways behind the scenes, and

Mr. Madron Seligman, MEP, BA has provided our essential first link with the European Parliament. I am pleased to inform you that following an invitation from the Nominations Committee, The Right Honourable Michael Foot, MP, has agreed to stand for election as Vice-President. Apart from his long standing interest in and contribution to the politics of clean air, as Member of Parliament for Ebbw Vale he has close connections with the South and Mid-Wales Division.

Turning now to activities within the Society, the Council and its Committees have also been busy and I would like to take this opportunity of thanking all members of Council and all members of the Society's Committees for their essential support and attendance. Even where it proved necessary to rearrange meetings at short notice, the response was most satisfactory and the Honorary Officers and I are most grateful for this.

As you may imagine, the Technical Committee discussed widely varying topics - ranging from acid rain in Scandinavia, through the roadside monitoring of smoke and SO₂, to all the other diverse issues which I have previously mentioned in reporting our evidence to the Royal Commission on Environmental Pollution. Meeting in conjunction with the Parliamentary and Local Government Committee subjects included: further action in respect of the Phurnacite Plant at Abercwmboi; possible hazard arising from straw and stubble burning; response to the Environment Sub Committee, European Communities Committee of the House of Lords, on such subjects as air pollution monitoring data exchange and operation of the "Polluter Pays Principle"; representation on British Standards committees; vehicular and domestic noise; and the contents of the Building Regulations. Independently, the Parliamentary and Local Government Committee: formulated the Society's general policy on straw and stubble burning; initiated a dialogue with the Advertising Standards Authority on the misleading nature of some advertisements for multi-fuel stoves; initiated the response to Government objecting to the Loughton No. 1 Smoke Control Order (1974) Revocation Order 1981; and developed contributions on several aspects of noise to the Society's evidence to the RCEP.

The Conference and Promotions Committee has, in addition to the meetings already mentioned, organised the Annual Conference at Llandudno and completed detailed planning of the spring workshop at Sheffield University. Importantly, the Committee has also approved the imminent publication of two new booklets, the first of which, written by Mike Gittins of Leeds, updates our basic work on pollution while the second, written by Hylton Dawson of Bristol, is a new venture which aims to tell the average citizen all one needs to know about noise and the means for its alleviation. We are hopeful that both booklets will become best sellers. As regards other publications,

the 1982 edition of the Members Handbook has been distributed and "Clean Air" has continued to be published. Finally, the Committee has approved the preparation of an interim edition of the Society's Reference Book (for publication early in the New Year) pending the introduction of a completely new edition to be published in 1985 which it is intended should become a standard textbook on air pollution for degree course students.

The library and information service handled approximately 2,600 requests for information, references and publications during the year. Information is given in standard packages or specifically tailored in the form of letters, reports and library loans; telephoned inquiries are answered with on-the-spot advice or by return call after research. Priority is given to members' requests.

The Finance and Administration Committee has been duly exercised with the pressing problems of finance and subscriptions in the face of inflation and recession. As you will see in the Note by the Honorary Treasurer circulated separately with this report, the anticipated deficit projected by last year's budget failed to materialise, due to a combination of considerable good fortune and careful management. However, the factors underlying last year's projected deficit remain and I can only advise all members to study our Treasurer's words with the greatest of care and act accordingly in the interests of the Society. I should also mention that the question of our Headquarters premises has still to be resolved since, in the face of major structural repairs to the building which continued throughout the summer, the Landlord has delayed renegotiating the lease.

On behalf of members of the Society, I would like to thank the Secretary General and all the members of his staff for their energetic and loyal efforts on our behalf. I would also like to express my sincere appreciation to the Honorary Secretaries of all the Divisions who play such a vital role in sustaining the work of the Society. We are most grateful to them for the unfailing interest they take in the Society and recognise that this makes considerable inroads on their private time.

Before concluding, it is with great sadness that I have to remind you of the death of Ewen Robson who died on 18th July at the age of 39. A stalwart member of the South West Division and a long standing member of Council and Chairman of the Parliamentary and Local Government Committee, he gave outstanding service to the Society throughout the last decade.

In concluding this report I would like to return to my opening remarks - that despite recession and financial constraints we cannot afford to relax in the National quest for Clean Air. The improvements in air quality we now enjoy have been won at great effort over

many years and at a cost which at today's prices would be regarded as substantially unaffordable. The message is, therefore, that in every respect clean air is sound economics, and we must put this over to the politician as well as the citizen at every opportunity - the corollary being that to meet this objective we must ensure that the Society remains vigorous and viable. In wishing my successor all good fortune in meeting these formidable tasks, I would assure him that he will find it a rewarding and wholly enjoyable year!

H. Giblin
Chairman of Council

REPORT OF THE AUDITORS TO THE MEMBERS OF
NATIONAL SOCIETY FOR CLEAN AIR

We have audited the financial statements set out on pages 53 to 55 in accordance with approved Auditing Standards.

In our opinion the financial statements, which have been prepared under the historical cost convention, give a true and fair view of the state of affairs of the Society at 31st March 1982 and of its surplus of income over expenditure for the year ended on that date, and comply with the Companies Acts 1948 to 1981.

City Gate House
39/45 Finsbury Square
LONDON EC2A 1AE

24th September 1982

Geo Little, Sebire & Co

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

THE NATIONAL SOCIETY FOR CLEAN AIR

(Company Limited by Guarantee - Incorporated January 1, 1958)

BALANCE SHEET

		<u>31.3.81</u>		<u>31.3.82</u>	
	<u>Notes</u>	£	£	£	£
FIXED ASSETS					
OFFICE FURNITURE AND EQUIPMENT					
As valued by the Secretary General					
as at 1.4.72	3	1,910		1,910	
Additions at Cost (1981/82 - £472)		11,856		12,328	
		<u>13,766</u>		<u>14,238</u>	
Less Depreciation (over 5 years)		9,932	3,834	<u>11,358</u>	2,880
LIBRARY BOOKS					
At Nominal Value			100		100
			<u>100</u>		<u>100</u>
			3,934		2,980
INVESTMENTS AT COST					
	4				
Fixed Interest Stocks		3,270		3,270	
Ordinary Shares		10,426	13,696	<u>10,340</u>	13,610
CURRENT ASSETS					
Stock of Publications at Secretary					
General's Valuation		1,625		1,200	
Sundry Debtors		2,957		3,719	
Prepayments		114		211	
Bank Balances		54,668		45,012	
Cash in Hand		120		18	
Funds held by Divisions		1,045		625	
		<u>60,529</u>		<u>50,785</u>	
LESS CURRENT LIABILITIES					
Sundry Creditors and Accrued Expenses		19,835		9,680	
NET CURRENT ASSETS					
NATIONAL POSTER COMPETITION	5	40,694		41,105	
		<u>(2,300)</u>		<u>-</u>	
NET ASSETS		<u>£56,024</u>		<u>£57,695</u>	
Represented by:					
GENERAL FUND					
Balance at start of year		44,027		42,447	
National Poster Competition add surplus	5	-		1,078	
(Deficit)/Surplus for the year		<u>(1,581)</u>		<u>592</u>	
Balance at end of year		42,446		44,117	
PREMISES FUND					
		<u>13,578</u>		<u>13,578</u>	
		<u>£56,024</u>		<u>£57,695</u>	

INCOME AND EXPENDITURE ACCOUNT for year ending 31 MARCH 1982

	Notes	31.3.81		31.3.82	
		£	£	£	£
<u>INCOME</u>					
Subscriptions - Donations	1	38,279		39,034	
Conference, Brighton October 81		12,756		15,271	
Workshop, Newcastle April 81		-		4,588	
Workshop, Nottingham March 82		-		3,604	
One Day Teach-In, Bristol November 81		296		1,109	
Sales of Publications		4,423		4,673	
Advertising - Clean Air		1,786		626	
Members Handbook		841		775	
		<u>2,627</u>		<u>1,401</u>	
Investment Income - Dividends		2,540		2,515	
Interest		9,308		7,992	
		<u>11,848</u>		<u>10,507</u>	
Contributions from IUAPPA/EPEMA		5,950		6,325	
		<u>76,179</u>		<u>86,512</u>	
<u>EXPENDITURE</u>					
Salaries and Wages		44,579		46,757	
Rent, Rates, Light and Heat		3,058		3,179	
Insurance, Travel Cleaning and General Expenses		10,949		10,350	
Depreciation - Office Furniture/Equipment	3	1,336		1,426	
Stationery/Supplies		997		938	
Provision for Doubtful Debts		178		29	
		<u>61,097</u>		<u>62,679</u>	
"Clean Air"/Members' Handbook		6,953		7,251	
Information Publicity Services		1,792		1,791	
Cost of Publications		1,383		1,794	
Divisional Expenses		1,554		1,792	
		<u>11,682</u>		<u>12,628</u>	
Conference, Brighton October 81		4,282		5,032	
Workshop April 81		200		2,315	
Workshop March 82		-		2,455	
One Day Teach-In		499		811	
		<u>4,981</u>		<u>10,613</u>	
		<u>77,760</u>		<u>85,920</u>	
(Deficit) / Surplus for the year		<u>(£1,581)</u>		<u>£ 592</u>	

THE NATIONAL SOCIETY FOR CLEAN AIR

(Company Limited by Guarantee - Incorporated January 1, 1958)

NOTES TO THE ACCOUNTS

31st MARCH 1982

1. Subscriptions:

Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate.

2. Premises:

The lease on the Society's Brighton offices expired on 14th November 1979. The Society has continued to occupy the premises at the same rent.

3. Office Furniture and Equipment:

Records are not available to show the original cost of all furniture and equipment which was valued by the Secretary General as at 1.4.72 at £1,910 and were included in the Accounts at this figure, which is now fully depreciated. Subsequent purchases are being written off over 5 years.

4. Investments:

The market value of the Society's investments as at 31-3-82 was £25,942

The value at 31.3.81 was £25,669

Less A capital repayment in respect of a
distribution offer not accepted
received in the year.

£86 £25,583

Increase £359

5. The National Poster Competition was held in October 1981. Expenditure of £1222 was incurred. This was charged against the reserve of £2300. The balance of £1078 was transferred to the general fund.

6. The legacy of £200 from Dr. Albert Park was applied to the purchase of a Badge of Office for the Chairman of Council. The cost of this item has been included in Miscellaneous Expenditure.

DIVISIONAL MEMBERSHIP & REPORTS

NOTE: Reports from the Honorary Secretaries of Divisions are for the year June 1981 - June 1982. However, the names of Chairman and Hon. Secretary which head each report are as current.

DIVISION ONE

SCOTTISH DIVISION

President: I. MacPherson

Hon. Secretary and Treasurer: F.J. Feeley

The Division was unable to hold any meetings during the year under review, but the President was deeply involved in a major air pollution survey undertaken as part of the Glasgow Eastern Area Renewal (GEAR) Survey. The air pollution survey report, in two volumes, was published in February 1983. This not only provides the most detailed examination to date of the incidence of domestic and industrial air pollution over a relatively small area within the UK, but also demonstrates the effectiveness of the modelling technique used. The survey was a valuable vehicle for improving the working relationship within and between the pollution control authorities involved, and its favourable findings will assist in the promotion of the area as a place in which to live and work.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Glasgow, City of
National Coal Board
Scottish Gas

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Hamilton District Council
Inverclyde District Council
Monklands District Council
Motherwell District Council
Renfrew District Council

* Life Member

CORPORATE MEMBERS

British Steel Corporation
(Scottish Division)
Greater Glasgow Health Board
Lothian Health Board
Step-One Research Analysis
Waldie and Cameron Ltd.

INDIVIDUAL MEMBERS

Anderson, R.P.
Blair, J.A.
Bulcraig, Dr. W.R.*
Christie, J.H.
Dunlop, W.A.
Foreman, J.*
Jackson, J.
MacPherson, I.
McGhie, J.R.*
Ramsey, Captain E.C.

DIVISION TWO

NORTHERN IRELAND DIVISION

Hon. Secretary and Treasurer: J.R. Lamont

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim District Council
 Ards District Council
 Armagh District Council
 Ballymena District Council
 Belfast, City of
 Carrickfergus District Council
 Castlereagh District Council
 Coleraine District Council
 Cookstown District Council
 Craigavon Borough Council
 Larne Borough Council
 Lisburn Borough Council

Londonderry City Council
 Newry & Mourne District Council
 Newtownabbey District Council

CORPORATE MEMBER

Eastern Health & Social Services
 Board

INDIVIDUAL MEMBERS

Brindley, D.
 Burke, V.I.
 Hanna, B.P.
 Lynas, K.H.
 McLaughlin, D.F.

DIVISION THREE

NORTHERN DIVISION

Chairman: Councillor L. Poole

Hon. Secretary: W.C.B. Robson

Three meetings were held during the year, all of which were well attended. Reports on the meetings have been published in Clean Air. The 1982 AGM was held at the Civic Centre, Newcastle upon Tyne, when a total of 49 members were present. Membership of the Division over the year remained fairly steady.

During the year, honours were bestowed on several members of the division; Councillor T.W. Yellowley was elected Lord Mayor of the City of Newcastle upon Tyne, Councillor B.C. Hodgson was elected Mayor of the Borough of Stockton upon Tees, and Councillor Poole, the Division's chairman, was elected Vice Chairman of the National Society for Clean Air's Executive Council.

In 1983, Colin Cresswell, who has done so much for the Division during his years as Hon. Secretary, and as its representative on the Council of the National Society, retired and gave up his Society offices. Mr. Cresswell's efforts both helped to further and promote the work of clean air in the Northern division, and were of great benefit to the Society as a whole. Mr. Charles Robson,

Chief Environmental Health officer of Darlington BC, was unanimously elected Hon. Secretary in his place.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
Board (North Eastern Region)
National Coal Board
Northern Gas

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow-in-Furness Borough
Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District
Council
Darlington Borough Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough
Council
Hartlepool Borough Council
Langbaugh Borough Council
Middlesbrough Borough Council
Newcastle upon Tyne, City of

North Tyneside Borough Council
Sedgefield District Council
South Tyneside Borough Council
Stockton-on-Tees Borough Council
Sunderland Borough Council
Wansbeck District Council

CORPORATE MEMBERS

British Steel Corporation
(Teesside Division)
Coal Merchants Federation of
Great Britain (Northern
Region)

INDIVIDUAL MEMBERS

Calvert, Mrs. M.R.
Canderland, D.E.
Cayton, S.*
Cresswell, C.R.
Eve, Mrs. M.E.
Issac, Prof. P.C.G.
Mair, L.*
Sugden, F.G.
Wilkinson, J.R.

NORTH WEST DIVISION

Chairman W.F. Snow

Hon. Secretary and Treasurer: J.B. Douglas

Since the last Annual General Meeting which incorporated an excellent visit round Fiddlers Ferry Power Station there has been a year of mixed activities.

The Divisional Council meeting in October 1981 was mainly a business meeting but it also incorporated a visit round the N.W. Gas Operational Control Centre at Higginshaw, Nr. Oldham, by courtesy of Mr. D.R. Horner. It was difficult to arrange visits during the winter and a number of companies, obviously affected by the recession, were unable to assist.

A resurgence of interest in the issue of Lead in Petrol resulted in a visit being arranged to the Associated Octel Co. Ltd., at Ellesmere Port, who are the manufacturers

of the lead additive. An excellent presentation was given to members in the morning followed by lunch and a tour round the plant in the afternoon. The visit was limited to 40 and was over subscribed.

The major event planned for the year was to have been a One Day Symposium on "Lead in Petrol" on July 12th., at which the major contributors were to have been Associated Octel and CLEAR who are a group actively campaigning against leaded petrol in particular. Negotiations for the timetable for the event broke down following the issue of a memorandum by CLEAR in which they specified conditions for their attendance relating to the programme and the contribution by the independent Chairman, Dr. Craxford. These conditions were unacceptable to the Sub-Committee and the event had to be cancelled.

A Divisional Council meeting at the NCB Headquarters at Lowton in April approved the original proposals for the above Symposium and also agreed that future Annual General Meetings should be in mid September, to fit in with the National Annual General Meeting and Conference. The final technical visit of the year was to Chatterley Whitfield Mining Museum at Tunstall where members went underground at this colliery which recently won the national award of "Industrial Museum of the Year".

J.B. Douglas
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
Board (North West Region)
Cheshire County Council
Liverpool, City of
National Coal Board
North West Gas
Shell Chemicals Ltd.

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bolton Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council

Delyn Borough Council
Greater Manchester Metropolitan
County Council
Halton Borough Council
Hyndburn Borough Council
Knowsley Metropolitan Borough
Council
Macclesfield Borough Council
Manchester, City of
Oldham Metropolitan Borough
Council
Pendle Borough Council
Ribble Valley Borough Council
Rochdale Metropolitan Borough
Council
Rossendale Borough Council
Salford, City of
Sefton Metropolitan Borough
Council

St. Helens Borough Council
 South Ribble Borough Council
 Stockport Metropolitan Borough
 Council
 Tameside Metropolitan Borough
 Council
 Trafford Metropolitan Borough
 Council
 Warrington Borough Council
 West Lancashire District Council
 Wigan Metropolitan Borough
 Council
 Wirral Metropolitan Borough
 Council

CORPORATE MEMBERS

Coal Merchants Federation of
 Great Britain (North West
 Region)
 Greater Manchester Council for
 Clean Air & Noise Control
 Metal Box Engineering
 The Woolton Society

INDIVIDUAL MEMBERS

Artis, Mrs. D.
 Cain, J.
 Cass, H.V.*

Christian, F.V.*
 Collins, D.H.
 Cook, Miss H.M.
 Evans, T.
 Fallows, W.B.*
 Franklin, E.J.
 Franklin, N.J.
 Frazer, I.M.
 Gee, Mrs. J.
 Gee, J.
 Hall, A.
 Hendy, Dr. B.
 Horton, P.H.
 Hollingdale, R.A.W.*
 Kennedy, M.A.
 Lloyd, A.
 Lowe, T.H.
 Mather, Sir William*
 McGauley, H.J.
 Mercer, I.G.
 Parsonage, H.*
 Pollitt, W.E.*
 Richards, J.E.
 Smith, D.
 Stanyard, R.J.
 Taylor, A.*
 Thomas, F.L.
 Vanstone, H.B.*
 Winder, F.*
 Yates, C.J.

YORKSHIRE AND HUMBERSIDE

Chairman: Cllr. R.J. McElvenney
 Hon. Secretary: D. Bird

In common with many organisations, the extremely severe weather conditions experienced during the winter months had the effect of limiting the Divisional programme for the year. It had been hoped to hold a meeting in Selby in either January or February to review the development of the Selby coalfield with particular reference to the environmental impact. The severe flooding experienced around Selby made it impossible to arrange, and the proposals had to be shelved. Meetings have been held at Sheffield and York. Both were well attended and the papers presented were well received.

The Division is broadly based and comprises representatives of local authorities (County and District Councils) at

both officer and member levels, representatives of nationalised and private industry, all the major fuel suppliers, the Clean Air and Alkali Inspectorate, as well as individual members. It has been interesting to note the recent increase in interest shown by the elected representatives of Councils. This is reflected by the fact that the Chairman and Deputy Chairman of the Divisional Council are now elected representatives on local authorities.

The Divisional activities in recent months have reflected the widening scope of the Society's interest to include all aspects of air pollution. The papers on open cast coal production, touching as it did upon dust, noise and vibration, and on the investigation of noise and vibration associated with industrial processes and central area redevelopment, are a sure indication of the manner in which local authorities as members are responding to new demands. The excellent presentation by Mr. Flux on his long association with the steel industry served to remind everybody of the problems which have had to be faced in the past and which still require the exercising of vigilance at present.

W.B. Twyford
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
Board
Leeds, City of
National Coal Board
North Eastern Gas
Sheffield, City of
South Yorkshire County Council
West Yorkshire County Council

Kingston upon Hull, City of
Kirklees Metropolitan Borough
Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
Wakefield Metropolitan Borough
Council
York, City of

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Bradford Metropolitan Borough
Council
Calderdale Metropolitan Borough
Council
Cleethorpes District Council
Doncaster Metropolitan Borough
Council
Great Grimsby Borough Council
Harrogate Borough Council

CORPORATE MEMBERS

British Steel Corporation
(Scunthorpe Division)
British Steel Corporation
(Sheffield Division)
John Thurley Ltd.
Union Carbide Ltd.
Universal Machinery & Services
Ltd.
Yorkshire & Humberside
Pollution Advisory Council

INDIVIDUAL MEMBERS

Clarke, Dr. A.G.
 Etherington, H.
 Gilbertson, J.
 Gittins, M.J.
 Green, G.H.
 Hutton, Dr. K.
 Inkersole, D.
 Jackson, J.R.

Lewis, Miss A.J.
 Myers, P.
 Perry, A.W.*
 Saword, A.C.*
 Scott, J.A.
 Store, N.J.
 Tomlinson, E.S.
 Wakefield, D.J.
 Williams, P.T.

WEST MIDLANDS DIVISION

Chairman: Cllr. G. Randall
 Hon. Secretary: Mrs. K.J. Sulway

Since the 1981 Annual General Meeting, the Division met formally only once. That was mainly due to the unavailability of venues because of cut backs by industry as a result of the recession. Further, the extreme winter meant that travelling was too hazardous to contemplate for several months and the rail strike in the Spring was also a hindrance. The Division eventually met at the Combined Heat and Power centre at Bulmers of Hereford, but the meeting was poorly attended. An informal invitation was extended to members to attend a seminar on Air Pollution in the West Midlands, at the Joint Unit for Research on the Urban Environment (JURUE) Aston University. The 1982 AGM was held on Thursday 17th June and was combined with a visit to the Associated Octel Co Ltd.

K.J. Sulway
 Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
 National Coal Board
 West Midlands Gas

LOCAL AUTHORITY MEMBERS

Coventry, City of
 Dudley Metropolitan Borough
 Council
 Hereford, City of
 Newcastle-under-Lyme Borough
 Council

North Warwickshire Borough
 Council
 Nuneaton & Bedworth Borough
 Council
 Redditch Borough Council
 Rugby Borough Council
 Sandwell Metropolitan Borough
 Council
 South Staffordshire District
 Council
 Stoke-on-Trent, City of
 Tamworth Borough Council
 Walsall Metropolitan Borough
 Council
 Warwick District Council

Wolverhampton Metropolitan
Borough Council
Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

Guest Keen & Nettlefolds Ltd.
Lodge-Cottrell Ltd.
The University of Aston in
Birmingham

INDIVIDUAL MEMBERS

Cockerham, Dr. R.G.

Grimmett, P.H.G.
Hancock, Miss E.
Hughes, T.*
Hulme, B.
James, E.N.
James, R.F.
Longley, J.C.*
Morris, O.R.
Newill, P.P.
Norton, R.
Peabody, Miss H.R.
Pocock, Dr. R.L.
Sulway, Mrs. K.J.
Taylor, C.B.*
Wraith, M.D.

EAST MIDLANDS DIVISION

EASTERN DIVISION

Chairman: Cllr. Mrs. E.J. Inglefield

Hon. Secretary: E.F. Raven

During 1981/82, three divisional meetings and three meetings of the divisional council were held, all of which were well attended. Reports on the meetings may be found in various issues of Clean Air. The 1982 AGM was held at the Electric Centre, Broadmarsh, Nottingham on Thursday 1st July 1982. 58 delegates attended and were given a civic welcome by the Lord Mayor of Nottingham, Cllr. Peter Burgess.

During the year, the Division had cause for sadness in the death of Cllr. Mrs. W.M. Townroe, MBE, of Mansfield, who had supported the Division over a number of years. There had also been cause for pleasure in the many compliments paid to Mr. H.B. Dunstan of the National Coal Board on his retirement, and in the news that Mr. D.F. Haynes, MP, had been appointed a Vice President of the Institution of Environmental Health. Cllr. Mrs. Inglefield was elected chairman of the Division and in taking the chair she paid tribute to her predecessor, Mr. Colin Stacey, reminding members that the authority of which he was Chief Environmental Health Officer, the City of Leicester, had been smokeless since 1975. The Secretary also thanked Mr. Colin Stacey for his service as Chairman alongside his many other commitments, and expressed gratitude to his fellow officers and all the local authority officers and other members who had arranged meetings during the year.

E.F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
Board (Midlands Region)
Coalite Group Plc
East Midlands Gas
National Coal Board
Rexco Ltd.
Rolls Royce Ltd.
The Incinerator Company Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston Borough Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Erewash Borough Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak Borough Council
Hinckley & Bosworth Borough
Council
Huntingdon District Council
Leicester, City of
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District
Council
North Kesteven District Council
North West Leicestershire
District Council

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council

Nottingham, City of
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
West Derbyshire District Council

CORPORATE MEMBERS

British Steel Corporation
(Chemicals Division)
British Steel Corporation
(Tubes Division)
Loughborough University of
Technology
Low Temperature Coal Distillers
Association of Great Britain
Ltd.

INDIVIDUAL MEMBERS

Brown, A.H.
Burns, G.
Clayton, H.M.
Davies, D.
Ffowcs Williams, Professor J.E.
Fleming, I.
Hall, J.E.
Haynes, F.
Hunt, Dr. J.C.R.
Inglefield, Mrs. E.J.
Lusty, V.
Richards, Dr. J.M.
Riley, Dr. R.V.*
Robinson, A. Lister*
Romaine, D.R.
Stewart, Mrs. E.E.
Turner, Miss H.E.
Turner, T. Henry*
Waring, F.L.
Weldon, Miss G.M.*

Ipswich Borough Council
Norwich, City of
Thurrock Borough Council

CORPORATE MEMBER

Ford Motor Company Ltd.

INDIVIDUAL MEMBERS

Amery, A.J.T.	Goodfellow, J. (Hon. Member)
Baxter, M.	Parsons, E.
Catlow, J.	Stephenson, Dr. R.J.*
Dobson, P.F.	Wade, J.T.
Fisher, J.G.	

LONDON AND SOUTH EAST DIVISION
CENTRAL SOUTHERN DIVISION

Chairman: M. Beaumont
Hon. Secretary: A.J. Rees

The Division's 1982 Annual General Meeting took place, after a postponement due to the rail strike, on Tuesday 10th August at BP House in London. Unfortunately, only a small number of members were able to attend but those that did so heard two extremely interesting papers from Dr. D.J. Ball of the GLC on 'Smoke from diesel-engined road vehicles', and from Peter Sutton, formerly of ESSO Petroleum Company Limited, on 'The monitoring of smoke and sulphur dioxide in Southampton and its environment'.

The three members of the Council of the Society from the South Eastern division and the one from the Central Southern division were all re-elected: Mr. J. Clancy, Dr. M.J.R. Schwar, Prof. R.S. Scorer and Mr. R.F. Shapter. Mr. M. Beaumont was re-elected chairman of the division, although he indicated that he would only continue for one further year. Dr. Schwar was elected deputy chairman and the Hon. Secretary re-elected. Mr. George Stubbs, who had served the Division for a truly remarkable period of 29 years as Hon. Minutes Secretary, reluctantly had to retire from this position in 1982.

During the year under review, a very successful visit to Snowdown Colliery was organised on the 19th November 1981, when the party was taken 3,000 ft. down to the coal face. The Divisional council met in November 1981 and March 1982.

A.J. Rees
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas Corporation	B.P. Oil Ltd.
B.P. International Ltd.	Central Electricity Generating Board

Coal Merchants Federation of
Great Britain
Eastern Gas
Environmental Protection
Equipment Manufacturers
Association
Esso Petroleum Co. Ltd.
Greater London Council
National Coal Board
North Thames Gas
Shell International Petroleum
Co. Ltd.
Shell U.K. Oil Ltd.
South Eastern Gas
Texaco Ltd.

LOCAL AUTHORITY MEMBERS

Adur District Council
Barnet, London Borough of
Bexley, London Borough of
Brent, London Borough of
Brighton Borough Council
Bromley, London Borough of
Broxbourne Borough Council
Camden, London Borough of
Crawley Borough Council
Dacorum District Council
Dartford Borough Council
Dover District Council
Ealing, London Borough of
Eastbourne Borough Council
Elmbridge Borough Council
Enfield, London Borough of
Epsom & Ewell Borough Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith & Fulham, London
Borough of
Harrow, London Borough of
Havering, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, Royal
Borough of
Kingston upon Thames, Royal
Borough of
Lewes District Council
Lewisham, London Borough of
London, Corporation of
Merton, London Borough of

Richmond upon Thames, London
Borough of
Rochester upon Medway Borough
Council
Southwark, London Borough of
Surrey Heath Borough Council
Sutton, London Borough of
Tower Hamlets, London Borough of
Watford Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Advance Central Services Ltd.
Atkins, W.S. Group Ltd.
Babcock Power Ltd.
Blue Circle Industries Ltd.
British Steel Corporation
Brookway Engineers Ltd.
Buckle, G.H., and Partners
Caltex (U.K.) Ltd.
Cleerburn Ltd.
Confederation of British Road
Passenger Transport
Guinness, A. Son & Co. (Park
Royal) Ltd.
Industrial Gas Cleaning
Association
Institution of Environmental
Health Officers, The
Institution of Gas Engineers, The
Institute of Petroleum
Johnson Matthey Chemicals Ltd.
McCrone Research Institute Ltd.
Mobil Oil Company Ltd.
North East Surrey College of
Technology
Preston Circus Association
Royal Society of Health
Solid Smokeless Fuels Federation
South East London Technical
College
St. Thomas's Hospital Medical
School, Department of Community
Medicine
Tottenham College of Technology
Women's Solid Fuel Council

INDIVIDUAL MEMBERS

Ades, T.R.
Barnes, K.

Beaumont, M.
 Bevington, C.F.P.
 Boddy, J.H.
 Bond, Professor G.G.
 Bradshaw, N.F.
 Briggs, E.
 Brown, H.
 Brown, T.J.
 Butler, J.W.*
 Clancey, J.*
 Clark, A.
 Colville, Lt. Com. R.F.
 Comer, P.J.
 Courtier, G.B.*
 Craxford, Dr. S.R.*
 Day, M.R.
 Dibb, Ms. S.E.
 Duckworth, P.D.
 East, R.G.
 Ellis, P.T.A.
 Elsworthy, Mrs. F.S.
 Evans, Miss B.M.J.
 Fisher, A.H.
 Gandy, Miss R.L.*
 Garland, G.E.
 Garland, P.
 George, Miss M.*
 Gillett, I.
 Goldsmith, A.
 Grant, P.M.
 Greenhead, S.*

Hirschler, M.M.
 Hunt, J.R.J.
 Iddison, T.H.*
 James, B.W.
 Kitchener, Earl
 Lees, B.*
 Lewis, B.N.
 Mayo, P.
 McEvoy, Lady M.
 McKenna, K.H.
 Meades, G.
 Menuhin, Yehudi
 Monkhouse, Dr. A.C.*
 Mowle, C.R.
 Perkins, P.R.
 Phillips, H.J.
 Raggett, G.F.
 Rayson, H.
 Rice, A.P.
 Richardson, R.C.*
 Scorer, Professor R.S.
 Shillito, D.E.
 Train, Dr. D.
 Tsang, P.
 Turner, D.W.
 Turner, Dr. W.C.*
 Vine, Mr. & Mrs. G.M.
 Walker, A.
 Wermann, J.C.
 Wilson, D.
 Wythers, J.R.G.

MEMBERSHIP LIST

SUSTAINING MEMBER

Southern Gas

LOCAL AUTHORITY MEMBERS

Bracknell District Council
 Cherwell District Council
 Fareham Borough Council
 Gosport Borough Council
 Luton Borough Council
 Mid Bedfordshire District Council
 Oxford, City of
 Portsmouth, City of
 Slough Borough Council
 Southampton, City of
 South Bedfordshire District
 Council

South Oxfordshire District Council
 Wycombe District Council

CORPORATE MEMBERS

Atomic Energy Research
 Establishment
 Highbury College of Technology

INDIVIDUAL MEMBERS

Armstrong, F.W.
 Bairds, J.M.
 Bartlam, J.N.
 Billington, N.J.
 Bridgen, R.F.
 Fleming, B.
 Fuller, H.I.

Hays, Professor S.
 Lingard, Ms. H.
 Nevard, L.
 Parry, M.
 Robson, A.

Scotson, D.A.*
 Shapter, R.F.*(Hon. Member)
 Sutton, P.
 Tagg, J.R.
 Verdin, A.

SOUTH WEST DIVISION

Chairman: H. Dawson
 Hon. Secretary: H.R. Nowell

The first half of the year was dominated by the Division-hosted Society Teach-In "The Economics of Pollution Control", and there was only one opportunity to demonstrate the change of emphasis by which the Council would manage the Division's affairs and meetings themselves would concentrate on practical and technical matters. That policy had been agreed at the 1981 A.G.M. in Bath and witnessed by our guests the Secretary General, John Langston and the then Chairman, John Clarke.

The responsibility for organising the teach-in was assumed by the ad hoc sub committee of Hylton Dawson, Bob Jarman, Ewen Robson and the Secretary. Despite some difficulties over obtaining a suitable chairman, speakers and financial security, the net result was a well attended function which was both informative and impressive and which did much to enhance the reputation of the Society, and the Division in particular. The principle of obtaining sponsorship had been looked upon with some scepticism by H.Q., which had initially pursued the matter unsuccessfully. By using local contacts, the sub committee was able to ensure that a precedent was set for future Society Teach-In's for using sponsorship to provide a sound financial basis.

The March meeting at Bristol Polytechnic provided the 26 members who attended with a comprehensive insight into the BSc. course in Environmental Health, including research and consultancy projects, followed by a demonstration of the modern instrumentation available for training and research. There were several alterations in membership during the year, due more to a change in organisations' representatives rather than to an increase or decrease in membership numbers, which remained fairly static.

Members' views were sought and duly forwarded to H.Q. on matters for consideration by the Royal Commission on Environmental Pollution, and on the White Paper "Lorries, People and the Environment".

Over the past few years the Division has acquired an image of being active, controversial where necessary, and having and expressing opinions on all pollution related issues. I believe that this image was enhanced during 1981/2 with our representatives at national level encouraging and influencing the Society to become more positive in its outlook.

In keeping with the trend over the past few years, correspondence and paperwork has steadily increased and I am grateful for the easing of the workload provided by the appointments of Bob Jarman and Hylton Dawson to the respective offices of Assistant Secretary (Meetings), and Public Relations Officer.

H.R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Avon County Council
Central Electricity Generating
Board (South West Region)
National Coal Board
South West Gas

LOCAL AUTHORITY MEMBERS

Bath, City of
Bristol, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Teignbridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Burmah Oil Trading Ltd.
Quality Environment Ltd.

INDIVIDUAL MEMBERS

Barfoot, N.
Baxter, T.*
Colehan, J.E.
Dickerson, D.S.
Edwick, B.H.
Garrard, Ms. P.
Garrigar, O.L.
Hannabuss, G.*
Lane, Dr. J.J.
Manners, C.C.
Merrick, R.J.
Newnham, Mrs. E.
Parker, Dr. R.A.
Parry, J.R.
Price, B.
Redston, R.V.*
Travers, I.D.
Upton, B.C.
Watkins, E.R.*

SOUTH MID WALES DIVISION

Chairman: Cllr. J.R.P. Evans

Hon. Secretary: T. Jones

The Annual General Meeting for 1981 was held in June at the Council Offices, Pontypool. The Mayor of Torfaen duly welcomed Members and talks were presented at this meeting by Dr. A. Keddie and Dr. R. Breakspere.

The next General Meeting of the Society took the form of a one day study and was held on 30th October, 1981, at the University College of Swansea. The meeting was attended by 46 persons. The theme of the meeting was "Pollution from Road Vehicles". Talks were presented to Members on this topic by Mr. Graham Ashford (Principal Environmental Health Officer with Newport Borough Council), Mr. J.H. Boddy (Environmental Adviser to Mobil Europe Inc.) and Dr. R. Pocock (Research Fellow at JURUE at University of Aston, Birmingham).

At this meeting, various Members made comments concerning the Annual Conference: subsequently passed to NSCA H.Q. for information. Further, members requested an updated report on the National Smokeless Fuel Plant at Abercwmboi which was presented at a later meeting.

The next General Meeting of the Division was held on 26th March, 1982, again at the University College of Swansea. The meeting was attended by 40 persons and the theme for the day was "Noise". Papers were presented by Dr. R. Pocock (Research Fellow at JURUE at the University of Aston) and by Mr. B. Taylor and Mr. H. Morgan (Environmental Health Officers with the Swansea City Council).

Divisional Council Meetings were held in September 1981, at Mid Glamorgan County Council Offices, Cardiff, in November 1981, at the same venue, and in March 1982, at the Rhymney Valley District Council Offices, Hengoed. Important matters discussed during the year were: the problems associated with the National Smokeless Fuel's plant at Abercwmboi, the future of the Alkali Inspectorate, lead in petrol and the Society's statement thereon, and the possibility of a local authorities' sampling programme for lead.

Future Divisional events, a constitution for the Division and other organisational arrangements were also thoroughly

discussed. The Council proposed that a letter be sent to Society H.Q., nominating the Rt. Hon. Michael Foot, MP, as a future Vice President of the NSCA. The Division's representatives on the national Council of the Society served on the Conference and Publicity committee (Cllr. C. Lewis and Cllr. H.I. Thomas) and on the Parliamentary and Local Government Committee.

T. Jones
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Mid Glamorgan County Council
National Coal Board
Wales Gas

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council
Cardiff, City of
Cynon Valley Borough Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Neath Borough Council
Newport Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council

Swansea, City of
Taff-Ely Borough Council
Torfaen Borough Council
Vale of Glamorgan Borough Council
West Glamorgan County Council

CORPORATE MEMBERS

British Steel Corporation
(Welsh Division)
South Glamorgan Institute of
Higher Education
Swansea Port Health Authority

INDIVIDUAL MEMBERS

Carson, R.
Dearden, J.*
Harrop-Griffiths, H.
Jones, M.
Palmer, K.C.
Perriman, R.J.
Thayer, J.M.

SMOKE CONTROL AREAS

Programme and Progress

The following lists contain the names of the new local authority areas as of April 1st 1974. Due to the financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1982 and some authorities' figures will have changed since that date. The British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.
GREATER LONDON	
SOUTH EAST	Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.
SOUTH WEST	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
WALES	Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.
SCOTLAND	
NORTHERN IRELAND	

KEY: c. = approx; h = houses; n/k = not yet known; susp. = (programme) suspended; t = total acreage of Borough/District quoted by L.A.; ur = under review; xld = cancelled; - = none; * = figures as published in 1982. Figures and names of authorities underlined indicate completed programmes.

NOTE: The total number of premises in some completed programmes has been revised by the local authorities concerned to take account of new development in the area.

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
NORTHERN				
Allerdale DC (Cumbria)	1993	c.4,000	1,246	
Blyth Valley BC (Northumberland)	1991	17,649	2,012	7,014
Carlisle City (Cumbria)	Susp.	6,092	898	2,701
Castle Morpeth(B)(Northumberland)	1983	2,174	1,495	3,578
Darlington(B) (Co.Durham)	Susp.	49,375	4,806	22,833
Easington DC (Co. Durham)	-	n/k	1,408	5,685*
Gateshead(MB) (Tyne & Wear)	c.1990	35,372	13,467	58,086
Hartlepool(B) (Cleveland)	1982	963	736	34,026
Langbaugh(B) (Cleveland)	1992/3	n/k	10,571	33,986
Middlesbrough(B) (Cleveland)	1979	12,226	12,226	52,409
Newcastle upon Tyne(M)(Tyne&Wear)	1978	34,500	34,500	128,980
North Tyneside(MB)(Tyne&Wear)	1986	20,847	13,182	69,044
Sedgefield DC (Co.Durham)	n/k	n/k	c.1,210	c.5,909
South Tyneside(MB) (Tyne&Wear)	n/k	16,285	13,451	57,573
Stockton-on-Tees(B)(Cleveland)	1986	48,062	12,043	42,944
Sunderland(MB) (Tyne&Wear)	No return received from LA			

NORTH WESTERN

Blackburn DC (Lancs)	No return received from LA			
Bolton(MB) (Gtr.Manchester)	1993	34,527	18,622	73,910
Burnley(B) (Lancs)	1980	23,700	23,700	43,000
Bury(MB) (Gtr.Manchester)	Susp.	24,506	18,020	51,306
Chorley(B) (Lancs)	n/k	c.16,000	361	1,750
Crewe & Nantwich(B)(Cheshire)	-	n/k	1,957	8,731
Ellesmere Port&Neston(B) Cheshire	No return received from LA			
Halton BC(Cheshire)	1980	17,121	17,121	39,933
Hyndburn(B) (Lancs)	1980	16,611	16,611	37,976
Knowsley(M) (Merseyside)	n/k	24,067	5,633	21,935
Lancaster City (Lancs)	No return received from LA			
Liverpool(M) (Merseyside)	1986	27,819	20,188	120,487
Macclesfield(B) (Cheshire)	No return received from LA			
Manchester City(M)(Gtr.Manchester)	1983/4	28,720	27,220	166,172
Oldham(M) (Gtr.Manchester)	1990	34,871	17,574	78,623
Pendle DC (Lancs)	1983	15,000	14,760	35,861
Preston(B) (Lancs)	1993	9,500	7,733	42,840
Ribble Valley(B) (Lancs)	No return received from LA			
Rochdale(M) (Gtr.Manchester)	1990	29,653	22,499	67,854
Rossendale(B) (Lancs)	1993	c.20,000	9,059	8,124
St. Helens(MB) (Merseyside)	No return received from LA			
Salford City(M) (Gtr.Manchester)	1977	23,942	23,942	90,279
Sefton(M) (Merseyside)	Susp.	n/k	2,587	13,463
South Ribble(B) (Lancs)	2008	27,454	4,470	11,226
Stockport(MB) (Gtr.Manchester)	Susp.	27,181t	24,703	101,645
Tameside(MB)(Gtr.Manchester)	No return received from LA			
Trafford(MB) (Gtr.Manchester)	1982	26,129	26,129	93,212
Vale Royal DC (Cheshire)	1981/2	6,928	6,928	10,422

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
<u>Warrington(B) (Cheshire)</u>	<u>1983</u>	<u>43,527</u>	<u>43,527</u>	<u>66,853</u>
West Lancashire DC(Lancs)	xld	n/k	7,170	14,239
Wigan(MB)(Gtr.Manchester)	1992	52,917	24,918	63,983
Wirral(M) (Merseyside)	1987	38,419	20,050	90,005

YORKSHIRE & HUMBERSIDE

Barnsley(MB) (S.Yorks)	No return received from LA			
Bradford City(M)(W.Yorks)	n/k	91,444	50,838	180,106
<u>Calderdale(MB) (W.Yorks)</u>	<u>1980</u>	<u>45,737</u>	<u>45,737</u>	<u>83,458</u>
Craven DC (N.Yorks)	Susp.	19,529	5,635	7,531
Derwentside DC (Co. Durham)	n/k	66,944	834	3,978
Doncaster (MB) (S.Yorks)	1997	139,000	20,938	c.59,000
Glanford(B) (Humberside)	No return received from LA			
Kingston-upon-Hull City(Hu.side)	Susp.	n/k	8,517	57,014
Kirklees(MB) (W.York)	1986/7	n/k	33,364	106,627
Leeds City(M)(W.Yorks)	Susp.	138,441	75,605	223,463
Rotherham(M) (S.Yorks)	-	69,881	14,088	49,580
<u>Ryedale(DC) (N.Yorks)</u>	<u>-</u>	<u>261</u>	<u>261</u>	<u>3,130</u>
Scunthorpe (B) (Humberside)	No return received from LA			
Sheffield City(M) (S.Yorks)	1982	58,048	55,945	215,905
Wakefield City(M) (W.Yorks)	1993	n/k	26,521	52,553 *
York City (N.Yorks)	n/k	7,400	4,574	21,945

WEST MIDLANDS

Birmingham City (W.Midlands)	1987	65,309	57,069	312,344
Coventry City(M) W.Midlands)	1985	23,860	13,094	86,245
Dudley(MB) (W.Midlands)	1987	24,202	20,102	110,000
East Staffordshire DC(Staffs)	1988	31,273	2,325	8,785
Lichfield DC (Staffs)	1984	1,403	1,215	4,570
Newcastle under Lyme (Staffs)	n/k	n/k	4,754	19,000
North Shropshire DC (Salop)	n/k	c.1,310	512	c.1,585
North Warwickshire(B)(Warwicks)	1986	12,200	7,143	8,915
Nuneaton(B) (Warwicks)	1994	19,585	8,737	19,804
<u>Rugby(B) (Warwicks)</u>	<u>1979</u>	<u>7,010</u>	<u>7,010</u>	<u>21,594</u>
Sandwell(MB)(W.Midlands)	Susp.	21,150	6,536	34,446
Shrewsbury & Atcham(B) (Salop)	No return received from LA			
Solihull(MB) (W.Midlands)	1985/6	c.8,000	6,282	35,927
Staffordshire Moorlands DC(Staffs)	n/k	c.5,000	92	500
South Staffordshire DC(Staffs)	Susp.	n/k	5,206	3,066
Stoke on Trent City (Staffs)	1986	22,949	13,581	50,842
Tamworth(B) (Staffs)	Susp.	7,647	4,089	12,845
Walsall(MB) W.Midlands)	-	12,126	13,974	56,708
Warwick DC (Warwicks)	1983	6,757	5,021	31,149
Wolverhampton(MB)(W.Midlands)	1993	17,031	9,253	56,868
Wrekin DC (Salop)	1990	19,311	7,676	14,430
Wyre Forest DC(Hereford & Worcester)	1983	639	633	4,100

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
EAST MIDLANDS				
Amber Valley DC (Derbys)	1990	19,300	3,971	8,519
Ashfield DC (Notts)	n/k	27,206	11,584	17,293
Bassetlaw DC (Notts)	1990	10,845	6,953	11,859
Blaby DC (Leics)	1990	20,171	5,800	12,037
Bolsover DC (Derbys)	2005	39,877	1,070	2,851
Broxtowe DC (Notts)	1986	20,033	10,483	32,766
Chesterfield(B) Derbys)	1985	16,230	9,904	33,051
Corby DC (N'Hants)	No return received from LA			
Derby(B) (Derbys)	1985	19,282	15,944	69,738
Erewash(B) (Derbys)	n/k	7,577	2,501	10,428
Gedling(B) (Notts)	1988	5,230	3,962	21,337
High Peak DC (Derbys)	1986	4,443	2,794	11,557
<u>Leicester City (Leics)</u>	<u>1975</u>	<u>18,144</u>	<u>18,144</u>	<u>91,918</u>
Lincoln City (Lincs)	1984	8,828	7,701	23,490
Mansfield DC (Notts)	1993	18,997	8,827	22,732
Northampton(B) (N'hants)	n/k	19,928	8,175	18,898*
North East Derbyshire(Derbys)	x/d	68,433	20,510	27,108
Nottingham City (Notts)	1993	18,364	11,283	44,471
Oadby & Wigston(B) (Leics)	Susp.	2,448	145	903*
Rushcliffe(B) (Notts)	1983	3,045	2,258	9,005
South Derbyshire DC(Derbys)	n/k	n/k	1,669	3,155
South Kesteven DC(Lincs)	-	n/k	2,917	10,387

EAST ANGLIA

Cambridge City (Cambs)	Susp.	10,060	1,446	2,811
King's Lynn & Norwich City (Norfolk)	Susp.	9,655	1,535	3,090
Peterborough City (Cambs)	-	82,424	5,173	18,111
West Norfolk BC (Norfolk)	n/k	n/k	841	3,137

SOUTH WEST

Bath City (Avon)	1992	7,092	230	2,173
Bristol City (Avon)	No return received from LA			
Cheltenham DC (Gloucs)	Susp.	n/k	954	13,155 ϕ
Exeter City (Devon)	ur	n/k	7,252	17,744
Gloucester City (Gloucs)	-	8,314	-	-

SOUTH EAST

Aylesbury Vale DC (Bucks)	Susp.	3,594	913	5,090
Basildon DC (Essex)	No return received from LA			

ϕ Policy of declaring as Smoke Control Areas
any new residential developments exceeding
50 dwellings.

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Bedford DC (Beds)	No return received from LA			
Bracknell DC (Berks)	1980	3,811	3,811	27,811
Brentwood DC (Essex)	No return received from LA			
Brighton(B) (E.Sussex)	Susp.	14,613	1,265	17,436
Broxbourne(B) (Herts)	1990	12,903	2,913	11,778
Canterbury City (Kent)	No return received from LA			
Crawley(B) (W.Sussex)	1985/6	9,013	5,622	33,724
Dacorum DC (Herts)	-	3,731	3,731	14,649
Dartford BC (Kent)	1981/2	17,267	17,267	31,035
Epping Forest DC (Essex)	No return received from LA			
Gillingham(B) (Kent)	1979	11,023	11,023	40,912
Gravesham(B) (Kent)	1985	4,532	4,122	20,338
Guildford(B) (Surrey)	1985	c.6,000	2,885	10,517
Harlow DC (Essex)	1965	5,899	5,899	28,000
Hertsmere DC (Herts)	-	21,031	2,121	7,913
Luton(B) (Beds)	1979	10,657	10,657	71,460
Milton Keynes(B) (Bucks)	1981/2	7,862	7,862	20,723
North Bedfordshire(B) (Beds)	1989/90	7,314	3,642	18,740
North Hertfordshire DC (Herts)	xld	92,332	1,341	4,845
Oxford City (Oxfordshire)	1990	8,785	3,484	15,659
Portsmouth City (Hants)	c.1990	9,249	866	8,778
Reading (B) (Berks)	Susp.	9,106	5,959	23,340
Rochester upon Medway (Kent)	No return received from LA			
Sevenoaks DC (Kent)	xld	n/k	n/k	n/k
Slough(B) (Berks)	c.1990	6,816	4,486	21,065
Southampton City (Hants)	1982	4,254	4,146	29,893
Spelthorne(B) (Surrey)	n/k	13,880t	11,752	30,897
Stevenage(B) (Herts)	1982	6,252	4,730	27,177
Thurrock(B) (Essex)	No return received from LA			
Watford(B) (Herts)	1979	5,275	5,275	32,000
Windsor&Maidenhead Royal B(Berks)	xld	n/k	831	2,655
Wycombe DC (Bucks)	susp.	79,987	3,818	16,525

LONDON BOROUGHS

<u>Corporation of London</u>	1955	678	678	17,714
Barking	No return received from LA			
Barnet	Susp.	22,123	16,429	133,542
Bexley	1976	15,847	15,847	99,656
Brent	1975	10,934	10,934	95,624
Bromley	1979	29,600	29,600	124,457
Camden	1968	5,365	5,365	88,214
Croydon	No return received from LA			
Ealing	1972	13,711	13,711	112,876
Enfield	1979	20,061	20,061	95,756
Greenwich	1972	11,724	11,724	75,673
Hackney	1967	4,814	4,814	90,507
Hammersmith & Fulham	1967	3,988	3,988	73,300
Haringey	1968	7,490	7,490	94,281

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
<u>Harrow</u>	<u>1975</u>	<u>12,553</u>	<u>12,553</u>	<u>72,892</u>
<u>Havering</u>	<u>1979</u>	<u>29,650</u>	<u>29,650</u>	<u>100,700</u>
<u>Hillingdon</u>	<u>1981</u>	<u>27,258</u>	<u>27,258</u>	<u>101,930</u>
<u>Hounslow</u>	<u>1972</u>	<u>14,469</u>	<u>14,469</u>	<u>90,271</u>
<u>Islington</u>	<u>1969</u>	<u>3,679</u>	<u>3,679</u>	<u>c.82,000</u>
<u>Kensington&Chelsea (Royal)</u>	<u>1972</u>	<u>2,950</u>	<u>2,950</u>	<u>25,288</u>
<u>Kingston upon Thames (Royal)</u>	<u>1980</u>	<u>9,135</u>	<u>9,135</u>	<u>55,738</u>
<u>Lambeth</u>	<u>1978</u>	<u>6,836</u>	<u>6,836</u>	<u>110,344</u>
Lewisham	No return received from LA			
<u>Merton</u>	<u>1977</u>	<u>9,380</u>	<u>9,380</u>	<u>65,905</u>
<u>Newham</u>	<u>1981/2</u>	<u>8,985</u>	<u>8,985</u>	<u>87,211</u>
<u>Redbridge</u>	<u>1971</u>	<u>13,963</u>	<u>13,963</u>	<u>c.93,000</u>
<u>Richmond upon Thames</u>	<u>1972</u>	<u>13,454</u>	<u>13,454</u>	<u>68,651</u>
Southwark	No return received from LA			
<u>Sutton</u>	<u>1977</u>	<u>10,727</u>	<u>10,727</u>	<u>81,544</u>
<u>Tower Hamlets</u>	<u>1968</u>	<u>4,875</u>	<u>4,875</u>	<u>73,460</u>
<u>Waltham Forest</u>	<u>1978</u>	<u>9,804</u>	<u>9,804</u>	<u>86,510</u>
<u>Wandsworth</u>	<u>1979</u>	<u>8,860</u>	<u>8,860</u>	<u>108,693</u>
<u>Westminster City</u>	<u>1970</u>	<u>5,334</u>	<u>5,334</u>	<u>13,021</u>

NORTHERN IRELAND

<u>Antrim (Co. Antrim)</u>	<u>1976</u>	<u>740</u>	<u>740</u>	<u>6,876</u>
<u>Ards (B) (Co. Down)</u>	<u>-</u>	<u>n/k</u>	<u>105</u>	<u>823</u>
<u>Armagh DC (Co. Armagh)</u>	<u>-</u>	<u>n/k</u>	<u>5</u>	<u>96*</u>
<u>Ballymena(B) (Co. Antrim)</u>	<u>1981/2</u>	<u>325</u>	<u>325</u>	<u>890</u>
<u>Belfast City (Co. Antrim & Co. Down)</u>	<u>1989</u>	<u>16,218</u>	<u>4,240</u>	<u>33,347</u>
<u>Castlereagh DC (Co. Down)</u>	<u>1983</u>	<u>5,911</u>	<u>5,428</u>	<u>17,756</u>
<u>Craigavon(B) (Co. Armagh)</u>	No return received from LA			
<u>Down (Co. Down)</u>	<u>n/k</u>	<u>n/k</u>	<u>482</u>	<u>950</u>
<u>Larne(B) (Co. Antrim)</u>	<u>-</u>	<u>5</u>	<u>5</u>	<u>192</u>
<u>Londonderry City (Londonderry)</u>	No return received from LA			
<u>Newtownabbey (Co. Antrim)</u>	<u>n/k</u>	<u>n/k</u>	<u>1,742</u>	<u>6,483</u>
<u>North Down (B) (Co. Down)</u>	No return received from LA			
<u>Strabane (Co. Tyrone)</u>	<u>1974</u>	<u>54</u>	<u>54</u>	<u>750</u>

SCOTLAND

<u>Bearsden & Milngavie(Strathclyde)</u>	<u>-</u>	<u>7,250</u>	<u>7,250</u>	<u>16,400</u>
<u>Clackmannan (Central)</u>	<u>n/k</u>	<u>39,680</u>	<u>642</u>	<u>3,776</u>
<u>Clydebank (Strathclyde)</u>	<u>1979</u>	<u>9,239</u>	<u>9,239</u>	<u>20,256</u>
<u>Cunningham DC (Irvine)</u>	No return received from LA			
<u>Dumbarton (Strathclyde)</u>	<u>1990</u>	<u>11,787</u>	<u>4,301</u>	<u>9,816</u>
<u>Dundee City (Tayside)</u>	<u>1981</u>	<u>12,654</u>	<u>12,654</u>	<u>69,778</u>
<u>Dunfermline (Fife)</u>	<u>Susp.</u>	<u>n/k</u>	<u>931</u>	<u>5,309</u>
<u>Edinburgh City (Lothian)</u>	No return received from LA			
<u>Ettrick & Lauderdale</u>				
<u>(Galashiels area only)</u>	<u>-</u>	<u>1,766</u>	<u>1,766</u>	<u>5,100</u>
<u>Falkirk (Central)</u>	<u>ur</u>	<u>n/k</u>	<u>12,812</u>	<u>32,753</u>
<u>Glasgow City (Strathclyde)</u>	<u>1987</u>	<u>49,753</u>	<u>35,295</u>	<u>259,605</u>

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Hamilton (Strathclyde)	ur	42,883	4,167	15,737
Inverclyde (Strathclyde)	Susp.	n/k	1,789	8,869
Kilmarnock & Loudoun(Strathclyde)	-	n/k	101	577h
Kirkcaldy (Fife)	n/k	n/k	5,839	7,083
Kyle & Carrick	<u>1981/2</u>	<u>98</u>	<u>98</u>	<u>275</u>
Monklands (Strathclyde)	1987	10,128	5,140	20,482
Motherwell (Strathclyde)	n/k	n/k	866	4,638
Nithsdale (Dumfries & Galloway)	Susp.	3,488	2,081	2,825*
Renfrew (Strathclyde)	No return received from LA			
Roxburgh (Borders)	1985	1,240	426	1,900*
Stirling (Central)	No return received from LA			
Strathkelvin (Strathclyde)	n/k	41,280	5,157	n/k
West Lothain (Lothian)	n/k	103,401	6,521	13,635

WALES

Alyn & Deeside (W) (Clwyd)	n/k	n/k	50	448
Delyn (B) (Clwyd)	n/k	n/k	321	841
Newport (B) (W) (Gwent)	n/k	n/k	67	1,178
Wrexham Maelor(B) (W) (Clwyd)	No return received from LA			

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M. Bapseres.

GERMAN DEMOCRATIC REPUBLIC

Abgasprüfstelle der DDR, Rudower Chaussee 6, 1199 Berlin-Adlershof.

Hygiene-Institut der Humboldt-Universität, Otto-Grotewohl-Str. 1, 108 Berlin, DDR.

Institut für Grubensicherheit und Arbeitsschutz, Kirchgasse 11, Freiberg/Sa., DDR.

GERMANY, FEDERAL REPUBLIC OF

Asbest-Institut für Arbeits- und Umweltschutz e.V.
Görlitzerstr. 1, 4040 Neuss.

Institut für Umweltschutz und Agrikulturchemie Berge u. Partner GmbH, Am Vogelsang 14, 5628 Heiligenhaus
Bez. Düsseldorf.

Bayerisches Landesamt für Umweltschutz, Rosenkavalierplatz 3, 8000 München 81.

Biolog. Bundesanstalt für Land- und Forstwirtschaft, Institut für nichtparasitäre, Pflanzenkrankheiten, Königen-Luise-Str. 19, 1000 Berlin 33.

Bundestalt für Materialprüfung (BAM), Unter den Eichen 87, 1000 Berlin 45.

Bundesgesundheitsamt, Institut für Wasser-, Boden- und Lufthygiene, Corrensplatz 1, 1000 Berlin 33.

Bundesministerium des Innern, Rheindorfer Str. 198, 5300 Bonn.

Bundesverband der Deutschen Industrie, Abt. Umweltfragen, Oberlander Ufer 84-88, 5 Köln 51.

Deutsche Gesellschaft für Mineral-
olwissenschaft und Kohlechemie
e.V., 2 Hamburg 1, Steindamn 71.

Deutsches Krebsforschungszentrum
Heidelberg, Institut für Toxikol-
ogie und Chemotherapie der Uni-
versität Heidelberg, 6900,
Heidelberg 1, Im Neuenheimer
Feld 280.

Deutscher Städtetag. Lindenallee
11, 5000 Köln-Marienburg.

Deutscher Verein von Gas-und
Wasserfachmännern, 6000 Frankfurt/
Main 97, Theodor-Huess-Allee
90-98.

Fachvereinigung Metallhütten-und
Umschmelzwerke e.V. Tersteegenstr.
28, 4000 Düsseldorf.

Hygiene Institut Zentrum für Ökol-
ogie am Klinikum der Justus Lie-
big-Universität, Friedrichstr.16
6300 Giessen.

Institut für Angewandte Botanik
der Universität Hamburg, 2000
Hamburg 36, Marseillestr. 7.

Institut für Pflanzenökologie der
Justus Liebig-Universität, Hein-
rich-Buff-Ring 38. 6300 Giessen.

Institut für Pharmakologie, Toxi-
kologie u, Pharmazie d. Tierärzt-
lichen Hochschule, 3000 Hannover,
Bischofsholer Damm 15.

Institut für Technische Physik
der Frauenhofer-Gesellschaft,
Königstr. 70/74, 7000 Stuttgart-
Degerloch.

Landesanstalt für Immissions-
schutz des Landes Nordrhein-West-
falen, Wallneyer Str. 6, 4300
Essen.

Landesanstalt für Umweltschutz
Baden-Württemberg, Institut für
Immissions-Arbeits- u, Strahlen-
schutz 75 Karlsruhe 21, Hertzstr.
173.

Landwirtschaftliche-Universität
Hohenheim Institut für Tierer-
nährung, Fachgr. 9, 7000 Stuttgart
70, Emil Wolff-Str. 8.

Med. Fakultät der RWTH Aachen Abt.
Hygiene und Arbeitsmedizin Loch-
nerstr. 4-20. 5100 Aachen.

Medizinisches Institut für Umwelt-
hygiene, 4000 Düsseldorf,
Gurlittstr. 53.

Medizinische Hochschule Hannover
Abt. für experimentelle Patholog-
ie, Theoretische Institute, Karl-
Wiechert-Allee 9, 3000 Hannover 61.

Ministerium f. Arbeit, Gesundheit
u. Soziales des Landes NRW, 4
Düsseldorf 1, Postfach 1134.

Rhein, -Westf. Technischer Über-
wachungs-Verein e.V., Steubenstr.
53 4300 Essen.

Silikose-Forschungsinstitut der
Bergbau-AG, Medizinische Abteil-
ung, 4630 Bochum, Hunscheidstr.
12.

Berufsgenossenschaftliches
Institut für Arbeitssicherheit-BIA,
Lindenstr. 80, 5205 St. Augustin.

Steinkohlenbergbauverein Haupt-
stelle für Staub- und Silikosebe-
kämpfung, 43 Essen-Kray, Franz-
Fischerweg 61.

Technischer Überwachungs-Verein
Rheinland e.V., Postfach 101 750
5000 Köln 1.

Umweltbundesamt, 1000 Berlin 33,
Bismarckplatz 1.

Verein Deutscher Eisenhüttenleute,
Breite Str. 27, 4000 Dusseldorf.

Verein Deutscher Giessereifach-
leute e.V., Sohnstr. 70, 4000
Düsseldorf.

Verein Deutscher Ingenieure (VDI)
- Kommission Reinhaltung der Luft,
Graf-Recke-Str. 84, Postfach 1139,
4 Düsseldorf 1.

Vereinigung der Technischen Über-
wachungs-Vereine e.V., 43 Essen,
Kurfürstenstr. 56.

VGB - Technische Vereinigung der
Grosskraftwerksbetreiber e.V. 43
Essen, Klinkestr. 29/31.

GREECE

Hellenic Association on Environ-
mental Pollution,
14 Xenofontos Street, Athens 118
Atn. Dr. A. Mavrommatis.

INDIA

National Environmental Research
Institute, Nehru Marg, Nagpur-
440020.

Central Labour Institute, Off
Eastern Express Highway, Sion,
Bombay 400022.

Bhabha Atomic Research Centre,
Health Physics Division, Trombay,
Bombay 400085.

Department of Civil Engineering,
Indian Institute of Technology,
I.I.T. P.O. Hauz Khas, New
Delhi, 110 029.

Department of Civil Engineering,
Jadavpur University, Calcutta -
700032 (W.B.).

Indian Association for Air
Pollution Control,
School of Environmental Sciences,
Jawahar Lal Nehru University,
New Delhi - 110057,
India.

Mail to: Prof. J.M. Dawe

Indian Standards Institution,
'Manak Bhawan', 9 Bahadur Shah,
Zafar Marg, New Delhi - 110002.

Internal Combustion Engines
Laboratory, Department of
Mechanical Engineering, Indian
Institute of Technology, Madras-
600036.

National Institute of
Occupational Health, Meghani
Nagar, Ahmedabad - 380016.

All-India Institute of Hygiene
& Public Health, Dept. of
Occupational Health,
110 Chittaranjan Avenue,
Calcutta 700 073.

ISRAEL

The Public Council for the
Prevention of Noise and Air
Pollution in Israel (MALRAZ)
P.O. B. 23047, Tel-Aviv 61230,
Israel. tel: 03-285196.
Chairman: Y. Beerli.

* ITALY

Associazione Termotecnica
Italiana, Gruppo Studio
Inquinamento Atmosferico
ATI/GSIA,
Viale Brenta 27/29
20139 Milano.

Director: Prof.F. Padovani

Consiglio Nazionale delle
Ricerche, Piazzale delle Scienze
7, Rome.

ENEL - Direzione Costruzioni
Termiche e Nucleari, Via G.B.
Martini, 3, Rome.

ESSO Standard Italiana - Environment Division, Piazza Industria, 46, Rome - EUR.

ILVA Society, Via Corsica 4, Genoa.

Institute of Hygiene, University of Ferrara, Corso Giovecca 173A, Ferrara.

Institute of Hygiene, University of Genoa, Via A. Pastore 1, Genoa.

Istituto di Ingegneria Sanitaria del Politecnico di Milano, Piazza Leonardo da Vinci, 32, 20133 Milan.

Istituto Superiore di Sanità, Viale Regina Elena 299, Rome.

Stazione Sperimentale per i Combustibili, Viale De Gasperi 3, San Donato Milanese, Milan.

JAPAN

The Institute of Public Health 6-1, 4-chome, Shironganedai, Minato-ku, Tokyo 108.

Japanese Union of Air Pollution Prevention Associations - JUAPPA, c/o Industrial Pollution Control Association of Japan, Shuwa Toranomon No. 3 Bldg., 21-8 Toranomon 1 chome, Minato-ku, Tokyo 105, Japan.

Industrial Pollution Control Association of Japan - IPCAJ, Shuwa Toranomon No. 3 Bldg., 21-8 Toranomon 1 chome, Minato-ku, Tokyo 105, Japan.

Osaka City Institute of Public Health and Environmental Science, 8-34 Tojo-machi, Tennoji-ku, Osaka-543.

MALTA

Society for Clean Air, 8-10 Civic Centre, Senglea.

MEXICO

Centro de Ciencias de la Atmósfera, Circuito Exterior Ciudad Universitaria, Mexico, D.F. C.P. 04510 Mexico.
At'n Dr. Humberto Bravo.

THE NETHERLANDS

Central Service for Environmental Control Rijnmond, 's-Gravenlandseweg 565, 3119 XT Schiedam.

Council for Air Pollution, Ministry of Public Health and Environmental Hygiene, P.O. Box 439.
2260 AK Leidschendam.

Division for Air Pollution, Gemeentelijk Bouw- en Woningtoezicht, Mauritskade 9-11, 2514 HD 's-Gravenhage.

Division Technology for Society TNO, P.O. Box 217, 2600 AE Delft.

Foundation Nature and Environment, Donkerstraat 17
3511 KB Utrecht.

KEMA, Research Institute for the Electricity Producer, Utrechtseweg 310, 6812 AR Arnhem.

Laboratory for Water, Soil and Air Pollution, Municipal Health Service, Nieuwe Achtergracht 100, 1018 WT Amsterdam.

National Institute of Public Health, P.O. Box 1, 3720 BA Bilthoven.

Research Institute for Environmental Hygiene (TNO), Atmospheric Pollution Division, P.O. Box 214, 2600 AE Delft.

SICOM, Foundation for International Liaison on Environmental Protection, P.O. Box 186, 2600 AD Delft.

Stichting Concawe (International Study Group for Conservation of Clean Air and Water in Western Europe), Babylon-Kantoren A, Koningin Julianaplein 30-9 2595 AA DEN HAAG.

Study and Information Centre TNO on Environmental Research, P.O. Box 186, 2600 AD Delft.

TNO-Project for Emission Registration, P.O. Box 342, 7300 AH Apeldoorn.

NEW ZEALAND

New Zealand Clean Air Society Inc., P.O. Box 2363, Christchurch, New Zealand.

NORWAY

Institute of Preventive Medicine, University of Oslo, Gydas Vei 8, Oslo 3.

The State Pollution Control Authority, Oslo Dept., Oslo 1.

Norwegian Institute for Air Research, P.O. Box 130-2001 Lillestrom.

SINTEF, avd. 21, 7034, Trondheim - NTH, Norway.

Norwegian Air Pollution Abatement Association, Affiliated NSF, Norske Sivilingeniører Forening, Kronprinsensgt. 17, Oslo 2, Norway.

PERU

Asociacion Peruana para el control de la Contaminacion del Aire (APPCCA) Casilla No. 11246 Lima 14 Peru.
President: M.A. Vizcarra Andreu.

* POLAND

Ministerstwo Administracji, Gospodarki Terenowej i Ochrony Środowiska, Department Ochrony Środowiska, Filtrowa 57, Warsaw 02 - 056.

Air Pollution Project, Maciej Szuba, Etiudy Rewolucyjnej 44/59, 02 643 Warszawa, Poland.

SAUDI ARABIA

Meteorology and Environmental Protection Administration (MEPA), PO Box 1358, Jeddah, Saudi Arabia.

SOUTH AFRICA

Atmospheric Sciences Division, National Physical Research Laboratory of the Council for Scientific and Industrial Research, P.O. Box 395, Pretoria, 0001.

Chemical Engineering Research Group of the Council for Scientific and Industrial Research, P.O. Box 395, Pretoria 0001.

D. Giles & Co. (Scientific) (Pty) Ltd., P.O. Box 3891, Johannesburg, 2000.

National Association for Clean Air, P.O. Box 5777, Johannesburg, 2000.

SWEDEN

National Swedish Environment
Protection Board, Box 1302,
S-171 25 Solna.

Swedish Water and Air Pollution
Research Laboratory, Box 5207,
S-40224 Gothenburg 5.

International Meteorological
Institute in Stockholm,
Arrheniuslaboratoriet,
HS-10691 Stockholm.

Swedish Meteorological and
Hydrological Institute,
H Box 923,
S-60119 Norrköping.
AB Bahco,
HS-19981 Enköping.

AB Svenska Flaktfabriken,
Box 81001,
S-10481 Stockholm.

SWITZERLAND

Cercl'Air
Schweizerische Gesellschaft der
Lufthygieniker, Postfach 317
CH-4502 Solothurn

Eidenössische Kommission für
Lufthygiene, c/o Bundesamt für
Umweltschutz, CH-3003 Berne.

Schweiz. Gesellschaft für
Umweltschutz (SGU),
Merkurstrasse 45,
Postfach,
8032 Zürich.

Schweizerische Vereinigung für
Gesundheitstechnik (SVG), Post-
fach 305, CH-8035 Zurich.

Schweizerische Vereinigung für
Gewässerschutz und Lufthygiene
(VGL), Postfach 3266,
CH-8031 Zürich.

Verein zur Förderung der Wasser-
und Lufthygiene (VFWL),
Spannweidstrasse 5,
8006 Zürich.

World Wildlife Fund,
WWF Schweiz,
Postfach,
8027 Zürich.

THE UNITED NATIONS ECONOMIC
COMMISSION FOR EUROPE

Environment and Human Settle-
ments Division, Palais des
Nations, Geneva, Switzerland.

U.S.A.

Air Pollution Control
Association, P.O. Box 2861,
Pittsburgh, P.A. 15230.

Bituminous Coal Research Inc.,
350 Hochberg Road, Monroeville
PA 15146.

U.S. Environmental Protection
Agency, Waterside Mall, 401 M
Street, S.W., Washington, D.C.
20460.

also:

Research Triangle Park, North
Carolina 27711.

Other U.S. Governmental Air
Pollution Agencies and individual
State Agencies are listed in an
annual Directory published by
the Air Pollution Control
Association in co-operation with
the U.S. Environmental Protection
Agency.

URUGUAY

Asociacion Uruguaya Contra la
Contaminacion del Aires, Calle
Colonia 1422, P. 6 A 601 Monte-
video, Uruguay.

* USSR

Sanitary and Epidemiological
Administration, Ministry of
Health, Rakhmanovsky periulok, 3,
101431, GSP Moscow K-51

A.N. Sysin Institute of General
and Municipal Hygiene USSR
Academy of Medical Sciences,
Pogodinskaya street, 10,
Moscow 119121

YUGOSLAVIA

Yugoslav Society for Clean Air,
71001 Sarajevo,
P.O. Box 79,
Masinski fakultat.

WORLD HEALTH ORGANISATION
DIVISION OF ENVIRONMENTAL
HEALTH

Avenue Appia, 1211 Geneva 27,
Switzerland.

* Entry taken from 1982
Members' Handbook, as no
reply received from enquiry.

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on various pollution and environmental topics. Application for the loan of films, or for the purchase of audio visual aids, should be made to the relevant issuing organisation referred to in the lists. Films are on free loan unless hire charges or purchase price are quoted. Two or three weeks notice should be given in advance of borrowing/hire of films for a specific date. Please note that 'sound' films should never be run on a silent projector.

The Society welcomes information on other films suitable for inclusion in future editions of the Members' Handbook.

BRITISH GAS CORPORATION

THE AIR - MY ENEMY

Colour 25 mins. 16 mm

Video VCR 15 + Super 8 mm

Mainly deals with contamination of the air, but other forms of pollution are described.

BRITAIN'S NATURAL GAS

Colour 24 mins. 16 mm

Looks at the advances made by the gas industry in the last 20 years.

I'M GLAD YOU ASKED THAT QUESTION

Colour 10 mins. 16 mm

Video Umatic + Super 8 mm

Cartoon showing how natural gas was formed, discovered and put to use. (Suitable for 10-14 years age range.)

THE SEAS AROUND US

Colour 18 mins.

Video U Matic + Super 8 mm

Shows the co-operation between British Gas and the fish industries in drilling for gas with the minimum disturbance to the aquatic environment.

A SUN FOR ALL SEASONS

Colour 12 mins. 16 mm

Tells why the seasons change. (Designed mainly for middle schools.)

WHY DON'T YOU PAINT IT GREEN?

Colour 20 mins. 16 mm

+ Super 8 mm

Deals with the gas industry's effort to protect the environment.

The above films are available on free loan from:

British Gas Film Library,
Parkhall Trading Estate,
Dulwich,

London SE21 8EL

tel: 01-761 3035

BRITISH MEDICAL ASSOCIATION

IT TAKES YOUR BREATH AWAY

B/W 10 mins. 16 mm 1964

Demonstrates the effect on the respiratory system of living in a polluted atmosphere.

POLLUTION

Colour 10 mins. 16 mm 1971

A series of 6 short 'spots' dealing with pollution problems and smoking. (No commentary.)

Available from:
BMA/BLAT FILM LIBRARY
BMA House,
Tavistock Square,
London WC1H 9JP
tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

THE COMBUSTION PROCESS
Colour 26 mins. 16 mm

ENERGY IN PERSPECTIVE
Colour 21 mins. 16 mm

HAZCHEM
Colour 14 mins. 16 mm

Explains the new UK Hazard Information System label and how it works; is primarily intended for those directly concerned with the safe movement of chemicals by road: chemical manufacturers, haulage contractors and drivers, emergency services, local authorities etc.

PLANET WATER
Colour 25 mins. 16 mm
Explains how the sea influences our climate, and considers the growing conflict between industry, recreation and coastal traffic which are pressing upon our crowded shores. Studies the fishing industry and sea-farming and examines the problem of pollution which is gradually turning parts of the sea into a cesspool.

THE SHADOW OF PROGRESS
Colour 27 mins. 16 mm
Deals with the environmental problems posed by a

technological age and discusses remedies: air, water, soil pollution; quality of life.

THE TIDE OF TRAFFIC
Colour 29 mins. 16 mm

WEB OF LIFE SERIES
Colour 30 mins. 16 mm
Seven films examining the ecological balance of the world's major systems: THE LIVING LAKES; THE LIVING MOUNTAINS; THE LIVING RAIN FOREST; THE LIVING RIVER; THE LIVING SAVANNA; THE LIVING TUNDRA; THE LIVING WOODLAND.

The above films are available on free loan from:
THE BP FILM LIBRARY
15 Beaconsfield Road,
London NW10 2LE
tel: 01-451 1129

CEGB FILM LIBRARY

THE BALANCED JUDGEMENT
Colour 20 mins. 16 mm 1978
Shows how the CEGB copes with its responsibilities of producing electricity and caring for the environment in the South Western Region.

CHANGE FOR SAFETY
Colour 24 mins. 16 mm 1970

ELECTRICITY & THE ENVIRONMENT
Colour 22 mins. 16 mm 1971

A NATURAL QUESTION
Colour 28 mins.
16 mm & video 1978
Shows nature trails and conservation around CEGB's power stations. Presented by naturalist and author, Phil Drabble.

NUCLEAR GENERATION
Colour 17 mins. 16 mm 1976

OPPORTUNITY AT SIZEWELL

Colour 21 mins. 16 mm 1982
Explains in layman's terms
why the CEGB wants to construct
a Pressurised Water Reactor
nuclear power station at
Sizewell.

POWER ON DEMAND

Colour 15 mins. 16 mm 1975

RESEARCH FOR POWER

Colour 28 mins. 16 mm 1978
Shows how the massive CEGB
research effort helps to keep
costs down and minimises the
environmental effects of
power stations.

SAFE JOURNEY

Colour 16 mins. 16 mm 1981
Looks at the transport of
irradiated nuclear fuel from
power station to railhead
en route to the reprocessing
plant.

The above films are available
on free loan from:
CENTRAL ELECTRICITY GENERATING
BOARD FILM LIBRARY
Sudbury House, 15 Newgate Street,
London EC1A 7AU
tel: 01-248 1202

CENTRAL FILM LIBRARY

BEACH CLEANING TECHNIQUES

UK 3372
Colour 7 mins. Hire 1977
A wide selection of up-to-date
equipment is seen in action
dealing with oil pollution on
beaches.

THE CONSERVATION GAME

UK 2770
Colour 25 mins. Hire 1975
Looks at some of the conservation
and restoration work undertaken
to preserve the historic
environment of Chester.

THE CONSERVATION OF NATURAL BUILDING STONE

UK 2805

Colour 6 mins. Free 1977
Shows how the Building Research
Establishment are working to
prevent decay in buildings -
caused partly by the reaction of
the stone with acidic gases in
the air.

DANGEROUS NOISE

V518

B/W 16 mins. Special Price Hire
1957
Aims to increase awareness of
the potential damage to hearing
by machine-made noise.

THE DEVELOPMENT OF A NOISE REDUCED DUMPER

UK 2793

Colour 10 mins. Free 1976
Describes the modification
carried out on a dumper to
reduce the noise output to an
acceptable level.

DISPERSANTS AT SEA

UK 3371

Colour 7 mins. Hire 1977
Shows oil pollution at sea and
on the beach being cleared by
Warren Spring Laboratory
dispersant equipment.

EAR PROTECTION IN NOISE

V511

Colour 12 mins. Special Price
Hire 1959
How permanent damage to hearing
may result from exposure to
noise in industry.

JOURNAL FOR SURVIVAL

V840

Colour 15 mins. Hire 1981
Examines international efforts
to bring safe water to the

world, mainly through small-technology, community action solutions in various under-developed countries

KEEPING OUT THE NOISE

UK 2779

Colour 25 mins. Free 1968
Concerns the considerable effort which has been made to determine the intensity of noise from various sources.

THE NEW PROSPECTORS

UK 3290

Colour 18 mins. Hire 1976
A pilot scale dry processing plant demonstrates how household waste is potentially reclaimable by sorting waste and recovering valuable raw materials.

NOT SO MUCH A FACELIFT ...

UK 2762

Colour 25 mins. Hire 1976
Deals with housing and environmental schemes which leave the community structure of the neighbourhood relatively undisturbed.

OLD HABITS DIE HARD

UK 3490

Colour 32 mins. Special Price
Hire 1981
Re-examines the problem of the foundry - dust, fumes, molten metal, machinery.

ONE MAN'S POISON

UK 3415

Colour 26 mins. Special Price
Hire 1979
Safety lessons for everyone handling potentially dangerous pesticides.

SAVE THE SEA

V800

Colour 15 mins. Hire 1974

Deals with many aspects of the marine environment and examines what must be done to preserve it.

SURFACE FILM CHEMICALS

UK 3373

Colour 6 mins. Hire
Experiments by Warren Spring Laboratory in techniques to clean oil from beaches and the sea.

THEORY OF DISPERSANTS

UK 3370

Colour 10 mins. Hire 1977
Shows the testing of dispersant chemicals by Warren Spring Laboratory.

A THIRSTY WORLD

UK 3311

Colour 42 mins. Hire 1976
Looks at man's use of fresh water resources.

WASTE MANAGEMENT - SOME FACTS

UK 3275

Colour 11 mins. Hire 1975
Looks at what is being done to prevent excess waste in industry. Of interest to councillors, consumers and amenity groups. (Originally made as slide/tape presentation.)

WATCH THAT SPACE - CONFINED SPACE HAZARDS IN THE CONSTRUCTION INDUSTRY

UK 3379

Colour 16 mins. Special Price
Hire 1978
Covers the main hazards of confined spaces on fire, flammable gas and an excess, or lack of, oxygen in the air.

WATCH THAT SPACE - CONFINED SPACE HAZARDS IN FACTORIES

UK 3380

Colour 19 mins. Special Price
Hire 1978

Aimed towards management, this film encourages careful planning and proper training for workers.

WATCH THAT SPACE - CONFINED SPACE
HAZARDS IN SHIPBUILDING
UK 3381

Colour 15 mins. Special Price
Hire 1978

Reconstruction of a genuine accident involving an explosion and fire in a ship's hold, caused by the ignition of excess oxygen.

WATER
V608

Colour 14 mins. Hire
Draws attention to the developing water shortage which the world faces.

WATER FOR LIFE
UK 2643

Colour 14 mins. Free 1967
Deals with desalination, and its significance in dealing with the global problem of fresh water supply.

WE'LL NEVER SLEEP AGAIN
UK 3438

Colour 27 mins. Hire 1980
Shows a happily married couple (Terry Scott and June Whitfield!) living in fear of industrial noise.

WHATEVER HAPPENED TO THE
COUNTRYSIDE?
UK 3423

Colour 25 mins. Free 1979
Looks at the changes in the countryside resulting from tree felling, the ravages of Dutch Elm Disease and highly mechanised farming.

The films above are all 16 mm.
Hire prices on request.

Available from:
CENTRAL FILM LIBRARY
Chalfont Grove,
Gerrards Cross,
Bucks. SL9 8TN
tel: Chalfont St. Giles
(02407) 4111

CONCORD FILMS COUNCIL LTD

AIR POLLUTION SERIES

Colour 31 mins. £12.40 per film
Three films: Part I, 'Sources and Effects', 22 mins; Part II, 'The Science of the Situation', 25 mins; Part III, 'Methods of Control'.

ALPHA OR OMEGA

Colour 15 mins. £8.60
Provocative film aimed at young people argues that if we are sufficiently concerned we can solve the population, pollution, energy and inflation problems that beset the human race.

AND ON THE EIGHTH DAY

Colour 52 mins. £16.40 1970
Also on video £12.40
Pollution of the environment: water, air, earth, fire (radio-activity).

ARK

Colour 20 mins. £9.40 U.S.A.
A moral fable about the dangers of pollution and extinction.

BATES'S CAR - SWEET AS A NUT

Colour 15 mins. £6.80
Harold Bates's car - adapted to use methane gas made from manure on his farm.

BILL LOOSELEY'S HEAT PUMP

Colour 10 mins. £7.20
Takes heat from soil in the

garden where copper pipes fitted with gas are buried, then pumps heat into the house.

BRAVE NEW WORLD

Colour 12 mins. £5.80

Conveys the atmosphere of the progression of industrialisation through a country.

BUTTERCUP

Colour 11 mins. £7.20

Follows a buttercup floating from fresh water into the filth left by industrial man.

CONSERVATION & BALANCE IN NATURE

Colour 18 mins. £7.00

Comprehensive picture of man's relationship to his environment.

CRITICAL MASS

Colour 60 mins. £15.00

Available on video only.

Dr. Helen Caldicott warns of the nuclear threat and effects of radiation.

DEAD EARTH

Colour 20 mins. £ 7.60

Survival of the environment, harmful use of defoliants.

DON'T SPOIL OUR WORLD

Colour filmstrip, for sale only. £5.00

Paintings by schoolchildren on aspects of pollution.

DUE TO LACK OF INTEREST

TOMORROW WILL BE CANCELLED

B/W 50 mins. £14.20

Are the scientists who predict ecological disaster exaggerating the situation to gain attention?

THE ENERGY SERIES:

ENERGY - THE DILEMMA

Colour 20 mins. £8.00

U.S.A. 1974

Explores problems of supply and demand. Will we run out of fuel soon?

ENERGY - THE NUCLEAR ALTERNATIVE

Colour 20 mins. £8.00

U.S.A. 1974

Nuclear safety issues explored.

ENERGY - NEW SOURCES

Colour 20 mins. £8.00

Solar panels, hot water geysers, etc.

ENERGY - LESS IS MORE

Colour 18 mins. £8.00

U.S.A. 1974

What of the future - will we have to adopt a new way of thinking?

THE FACTS ARE THESE SERIES -

NO. 6 IN A CLEANER, GREENER LAND

Colour 20 mins. £8.20

Also on video £5.20

Pollution of air, water and land. Suitable for children.

FIRST MILE UP

B/W 30 mins £7.50 1961

Canadian study of air pollution.

HARNESS THE WIND

Colour 12 mins. £6.20

An animated history of wind generators.

HAVE OUR PLANET & EAT IT TOO?

Colour 24 mins. £12.00

Strip mining - illustrates the dilemma between maintaining standards of living and preserving environment.

INTERVIEW WITH PAUL EHRLICH

B/W 40 mins. £8.00

American ecologist and author
of "The Population Bomb".

LIVING DANGEROUSLY

B/W 30 mins. £10.40 1976

Also on video £5.20

Seveso disaster and after-effects.

MAN THE POLLUTER

Colour 53 mins. £17.60

1978 Also on video.

A richly illustrated cartoon of
man's capacity to foul his own
nest and ignore it.

A MATTER OF ATTITUDES

B/W 30 mins. £10.40

A project to discover how much
people are aware of pollution in
Canada.

MULTIPLY & SUBDUE THE EARTH

Colour 50 mins. £15.20

Deals in detail with man's misuse
of the environment.

NATURE'S WAY

Colour 15 mins. £6.80

Looks at eco-systems and man's
interactions with natural environ-
ments. Suitable for all ages.

NO FITTING HABITAT

Colour 30 mins. £12.40

1979

A study of the city - problems and
possible solutions.

NUCLEAR NIGHTMARE

Colour 30 mins. £14.20

1979

Also on video £8.20

The Three Mile Island, Harrisburg,
USA, crisis. (Granada 'World in
Action' Programme.)

PERSISTENT AND FINANGLING

B/W 60 mins. £8.40

True story of a pressure group -
'Stop: Society to Overcome

Pollution' - in Montreal.

POLLUTION: 1st, 2nd, 3rd.

Colour £9.80 each film.

Part 1, 26 mins; Part 2, 22 mins;

Part 3, 23 mins.

Three films dealing with the
subjects of Water, Air and Solid
Waste Pollution.

POPULATION AND POLLUTION

Colour 18 mins. £6.80

U.S.A. 1970

Links these two vital subjects.

Suitable for older children.

SMALL IS BEAUTIFUL

Colour 27 mins. £11.00

1979

A filmed biography of
E.F. Schumacher.

SOLAR ENERGY - HOW IT WORKS

Colour 15 mins. £8.80

Explanatory film for children
and lay audiences.

THE SOLAR HOUSEHOLD

Colour 25 mins. £9.00 1978

Looks at various domestic
systems available and research
into reliability of different
materials and designs.

THE TIRION PROGRAMME

Colour 26 mins. £12.00

World in Action Film which dis-
cusses the pressurised water
nuclear reactor.

TRAFFIC OR TRANSIT

Colour 30 mins. £12.40

The effects of traffic on the
environment, particularly in the
city of Hamburg.

WHO STOLE THE QUIET DAY?

Colour 16 mins. £7.00

USA 1973

Noise - comprehensive film suitable for most ages.

WHO TAKES THE LEAD?

B/W 25 mins. £6.60

The moral and physical dangers created by pollution are focused on in this playlet.

The films listed above are all 16 mm with optical soundtrack. The hire charges shown are for one day (25% extra for each additional day). Carriage and VAT are not included in the hire charge. Free catalogues are available listing Ecology and Nuclear Power Films.

Complete 1983 Catalogue available, price £2.50

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Ipswich, Suffolk. IP3 9BJ

tel: Ipswich (0473) 76012

or 715754.

ELECTRICITY COUNCIL FILM LIBRARY

ELECTRIC VEHICLES - WHAT ARE THE FACTS?

Colour 20 mins. 16/8 mm

On free loan from:

THE ELECTRICITY COUNCIL FILM LIBRARY

15 Beaconsfield Road,
London NW10 2LE

Additional information is available from UNDERSTANDING ELECTRICITY, the educational information service sponsored by the electricity supply industry in the United Kingdom and the Republic of Ireland, and the UK Atomic Energy Authority.

A catalogue lists 16 mm films, 35 mm filmstrips, posters, publications, information sheets, wall charts and other educational material.

Facilities (including environmental study centres, nature trails and visits to power stations) are provided by the Regions of the Central Electricity Generating Board and the Supply Undertakings in Scotland and Ireland. Details from UNDERSTANDING ELECTRICITY, Electricity Council, 30 Millbank, London SW1P 4RD

GUILD SOUND & VISION LTD.

A LOAD OF OLD RUBBISH

Colour 26 mins.

Note: This film is available on free loan to Local Governments and schools who should apply direct to the Public Information Branch, Greater London Council, Room 226, The County Hall, Greater London Council, London SE1.

ALTERNATIVES

Colour 32 mins. Free loan

Shows the need to find alternatives to fossil fuels which are burned up by our cars and machinery and which provide power to manufacture goods.

BIA SAFETY SERIES

SAFETY - BREATHING

Colour 10 mins.

Shows the importance of wearing correct breathing apparatus and taking appropriate precautions before entering hazardous areas.

SAFETY-HEARING

Colour 10 mins.

Shows the damaging long-term effects of noise, if ear protection is not used.

THE GREAT SEARCH - MAN'S
NEED FOR POWER & ENERGY

Colour 13 mins.

Traces the discovery, development and application of major sources of energy, while stressing the importance of the ecological balance.

LOOKING AT THE RIVER

Colour 12 mins.

A look at the essential role of the river in the environment.

(This film and TAKEN FOR

GRANTED available on free loan to anyone living within the Thames Water Region.)

MOTORWAY NOISE

Colour 25 mins.

An examination of the legislation proposed in 1972 to control motorway noise nuisance.

ORIGINS OF WEATHER

Colour 12 mins.

Animation illustrates the earth's dynamic heat exchange and resulting weather is shown in actuality.

SAFETY FIRST

Colour 34 mins. Free loan

Deals with the measures taken by one company in the chemical industry to ensure that its products and processes are safe for its employees, users and the environment.

SMOKERS' LUNGS

Colour 13 mins.

Provides convincing evidence that smoking can, and does, cause cancer and other lung diseases.

SOLAR RADIATION: SUN AND EARTH

Colour 18 mins.

Illustrates the concept that the energy radiated away to space

by the earth must balance the energy received from the sun.

TAKEN FOR GRANTED

Colour 15 mins.

The above films are available from:

GUILD SOUND & VISION LTD

Guild House,

Oundle Road,

Peterborough PE2 9PZ

tel: Peterborough (0733) 63122

LOUGHBOROUGH UNIVERSITY

ENVIRONMENTAL FILMS

AIR POLLUTION

1. SOURCES AND EFFECTS

Colour 20 mins. £18 (2 days)

Air pollutants are particulates, gas or radioactive materials from both natural and man-made sources. These are detailed, their effects on people and the environment illustrated.

2. THE SCIENCE OF THE SITUATION

Colour 22 mins. £18 (2 days)

Measurements of size, density and shape classify particles and to a large extent their behaviour in air. The film shows how knowledge of the nature and behaviour of the material to be removed is necessary before deciding which type of equipment is most suitable.

3. METHODS OF CONTROL

Colour 28 mins. £20 (2 days)

Intelligent air pollution legislation based on scientific understanding balances environmental improvement with economic realism. The balance is between conservation, pollution and improving standards of living.

WATER POLLUTION

1. QUALITY AND SUPPLY

Colour 27 mins. £20 (2 days)

To maintain the quality of mains water, collected, treated and distributed by the Water Authorities requires close control of waste water discharges by industry at all stages. Costs of supplying and treating water, sources and effects of river pollution and control by the measurement of biochemical oxygen demand are discussed.

2. USE AND TREATMENT

Colour 28 mins. £20 (2 days)

Shows the basis of charges for disposing of waste water from industry. The treatment of used water both before and after discharge to sewer is discussed and the point made that major cost savings can result by relating quality to use, by conservation, re-cycling and re-use.

NOISE

1. NOISE AND PEOPLE

Colour 18 mins. £20 (2 days)

Shows how various are the effects of noise in different situations. Simple and complex sounds are shown on the oscilloscope and spectrum analyser. Loudness, intensity, decibels and the use of sound level meters are explained.

2. THE SCIENCE OF SOUND

Colour 20 mins. £18 (2 days)

The physical principles which govern the behaviour of sound are explained. What we hear depends on what happens to sound as it travels. The effects of distance, atmospheric variations and

obstacles are shown.

3. CONTROL OF NOISE

Colour 19 mins. £18 (2 days)

Most noise comes from machines so that the more machines the greater the problem, unless the source of the noise is tackled. The principles and practice of effective noise reduction by distance, barriers, insulation and personal protection are described.

4. NOISE (NCB)

Colour £18 (2 days)

Sequences selected by the NCB for training purposes from Noise 1 & 3 are combined to provide a general awareness film.

THE BUILT ENVIRONMENT

1. BUILDINGS FOR PEOPLE

Colour 35 mins. £22 (2 days)

Shows how integrated environmental design can create buildings which provide a satisfactory environment, are economical to run and maintain, and are aesthetic. Form, shape and materials affect the amount of noise, heat, air and light flowing into, out of or around buildings as well as the aesthetics and structural system. Design and research in building environmental engineering are emphasised.

All films are for sale in 16 mm or video cassette. Half price hire rates for educational establishments.

Available from:

Sonia Withers,
Centre for Extension Studies,
Loughborough University
of Technology,
Loughborough,

Leics. LE11 3TU.
tel: (0509) 263171

MOTHERWELL BRIDGE TACOL LTD.

NO TIPPING

Colour 14 mins. 16 mm

Available from:
MOTHERWELL BRIDGE TACOL LTD.
Green Dragon House,
64/70 High Street,
Croydon,
Surrey CR0 1NA
tel: 01-686 6917

N.C.B. FILM LIBRARY

CLEAN AIR AT HANDSWORTH

Colour 8 mins. 16 mm
1967/72

CLEAR THE AIR

Colour 11 mins. 16 mm
1976

CHIMNEYS

Colour 21 mins. 16 mm
1975

DISTRICT HEATING

Colour 24 mins. 16 mm 1972

DURHAM - THE CHANGING FACE OF A COUNTY

Colour 17 mins. 16 mm 1978
Shows how colliery spoil is
being taken out to sea and
Durham's beaches being reclaimed.

GETTING THE BEST OUT OF SUNBRITE

Colour 7 mins. 16 mm 1977

INCINERATE - WITH COAL

Colour 26 mins. 16 mm 1973

LIVING FIRE

Colour 5½ mins. 16 mm 1973

NOISE

Colour 20 mins. 16 mm 1981
An introduction to noise control.

NOT JUST FOR BURNING: RESEARCH INTO COAL AT C.R.E.

Colour 25 mins. 16 mm
1971 revised 1974.

THE SHAPE OF FUEL TO COME

Colour 24 mins. 16 mm 1981
The Coal Research Establishment
is continually improving methods
of coal combustion for industrial
and domestic users.

TIP RESTORATION

Colour 18 mins. 16 mm 1982
A primer on the techniques
employed in order to reclaim
colliery waste tips and restore
them to fertility.

TOMORROW'S COAL

Colour 27 mins. 16 mm 1974

WELCOME HOME

Colour 22 mins. 16 mm 1968

The above films are available on
free loan (£2 handling charge per
programme) from:

NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London SW1X 7AE
tel: 01-235 2020
telex: 882161

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY

Colour 25 mins. Free loan

Available from:
SHEFFIELD PUBLICITY OFFICE
Town Hall,
Sheffield 1.
tel: (0742) 734068

SHELL FILM LIBRARY

ENVIRONMENT IN THE BALANCE

Colour 30 mins. 16 mm 1978
Accompanied by notes and also
available on VHS, Philips 1500

& U-Matic video-cassette.

Shows how geological, topographical and social developments in Britain helped to shape our environment.

Discusses industrial expansion, population growth and pollution.

EYE ON THE FUTURE

Colour 23 mins. 16 mm 1982

Also available on VHS, Philips 1500 & U-Matic Video-cassette.

Bearing in mind that we still waste about half of all the energy we use, this film introduces the concept of improved energy efficiency.

THE RIVER MUST LIVE

Colour 21 mins. 16 mm

1966 (re-edited 1976)

Accompanied by notes and also available on VHS, Philips 1500 & U-Matic video-cassette.

Balance of life in a healthy river, effects of pollution.

THE SEA - OUR FUTURE

Colour 29 mins. 16 mm 1981

Accompanied by notes and also available on VHS, Philips 1500 & U-Matic video-cassette.

Discusses the use of our narrow seas and highlights the problems of over-fishing and disposal of waste.

TIME FOR ENERGY

Colour 33 mins. 16 mm

1982. Also available on VHS, Philips 1500 & U-Matic video-cassette. Discusses some of the renewable and, apparently, free sources of energy - sun, wind, waves etc. Looks at problems of harnessing them and stresses need to conserve the energy we have.

WORLD OF OIL

Colour 53 mins.(total) 1976

Accompanied by notes and also available on VHS, Philips 1500 & U-Matic video-cassette

1. Oil Formation 5 mins.
2. Where and How Oil is Found 7 mins.
3. Drilling for Oil 8 mins
4. From Well to Refinery 5 mins.
5. The Refinery 10 mins.
6. Distribution 7 mins.
7. Natural Gas and the Petroleum Gases 11 mins.

Series of 7 self-contained films which forms an introduction to the subject of oil for pupils taking CSE or O Level in Science or Geography. Parts 1-3 and 4-6 are available either separately or on two reels of three parts each. Borrowers should state their preference.

Available on free loan from:

SHELL FILM LIBRARY

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Hendon,

London NW4 4AT

tel: 01-202 7803

VISCOM LTD

ENERGY FOR ALL

Colour 33 mins. 16 mm 1981

Also available on VHS and Betamax video cassettes at £11.75 + VAT.

Shows the contribution nuclear energy can make to world needs and considers questions of safety, radiation hazards and environmental effects.

FAST REACTOR

Colour 23 mins. 16 mm 1979

Also available on VHS and Betamax video cassettes at

£11.75 + VAT. Describes how the fast reactor works and considers fuel reprocessing, safety and core design.

THE MANAGEMENT OF NUCLEAR WASTE
Colour 24 mins. 16 mm 1982

Also available on VHS and Betamax video cassettes at £11.75 + VAT.

Deals with the treatment, disposal, containment and dispersal of wastes. Also explores some international proposals for the long term disposal of nuclear waste

Available from:
Viscom Ltd., Park Hall Road
Trading Estate, London SE21 8EL
Telephone (01) 761 3035/8

BARRY WILES FILMS

IF YOU CAN KEEP YOUR COOL
Colour 10 mins. Super 8 mm
Free loan Electricity Council,
1978.

Advantages of air conditioning -
centres on busy disc jockey.

NOW AND THEN

Colour 28 mins. Super 8 mm
Free loan British Gas
Corporation. Development of the
British Gas Industry.

The above films are available
from:

BARRY WILES FILMS,
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owner to identify asbestos-
containing installations and to
determine the precautions
required.

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20 mins.

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usage of asbestos together
with the risk to health and the
legal control limits.

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ASBESTOS INFORMATION CENTRE
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168 BRONCHITIS

332 THE ENVIRONMENTAL HEALTH
OFFICER

307 POLLUTION

73/7 THE RESPIRATORY SYSTEM

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telex: 296359 ERL G

Environmental Resources Ltd. are specialists in environmental research: pollution and environmental impact monitoring, analysis and assessment of environmental data, recommendations for pollution control measures and their implementation, cost-benefit analyses and economic analyses of least-cost methods of pollution reduction, waste disposal strategy and operational plans, technological forecasting and environmental-risk assessment. Energy studies are undertaken through an associate company, ERL Energy Resources Limited.

Multi-disciplinary services are offered to international bodies, national, regional and local governments and industry in the field of waste disposal management, industrial pollution problems and land-use development studies.

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Grootenhuis Allaway Associates specialise in noise, vibration and acoustical control.

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tel: Huntingdon (0480) 890431
telex: 32100

Huntingdon Research Centre is an independent contract research organisation offering confidential services and consultancy relating to the biological safety evaluation of chemicals - involving toxicity carcinogenicity and mutagenicity tests, chemical and analytical services, etc. In particular, the Department of Inhalation Toxicology covers aspects of aerosol technology and inhalation toxicity testing.

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telex: 23485

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Also general information booklet about Association and Members - free.

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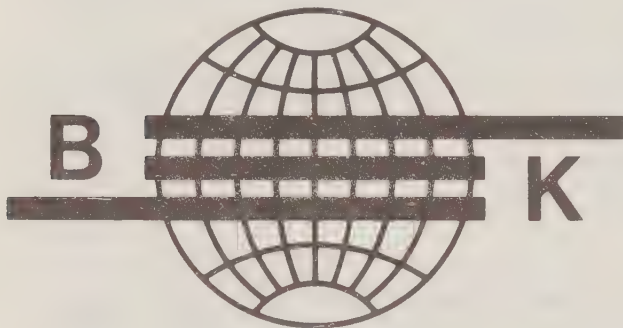
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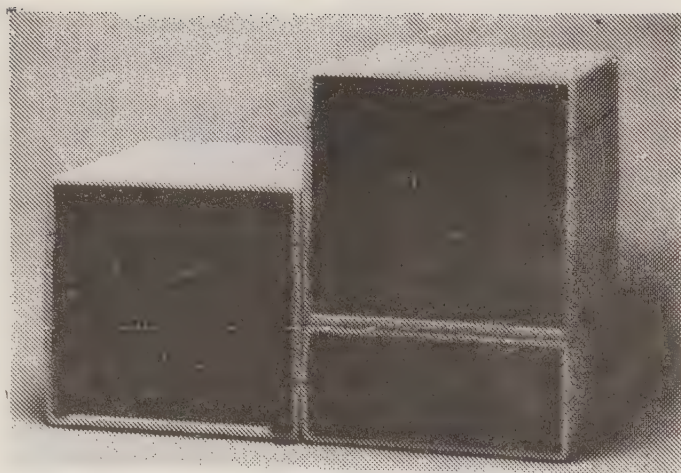
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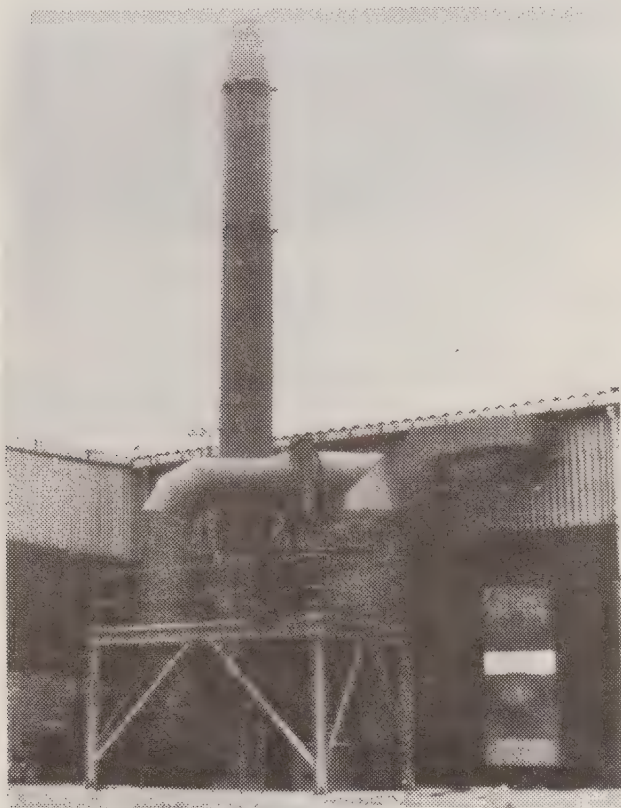
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EPEMA was inaugurated in September 1972 under the auspices of NSCA. EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.



The Association ensures that its members manufacture, market and install equipment of the required standard.

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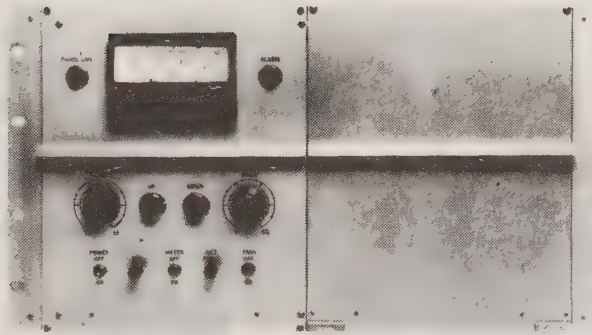
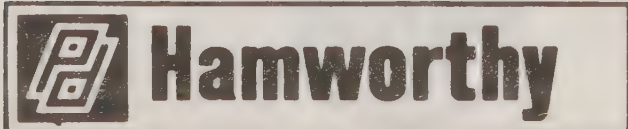
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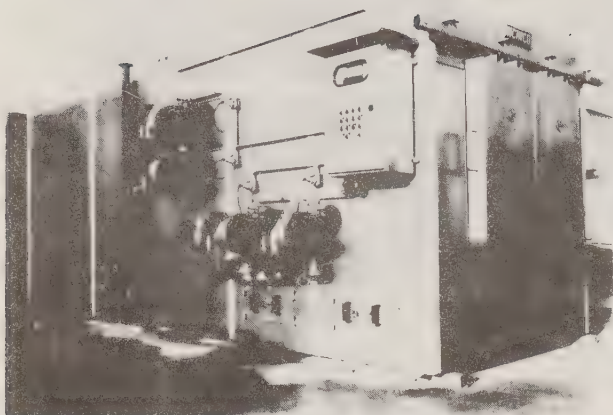
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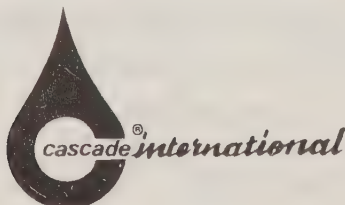
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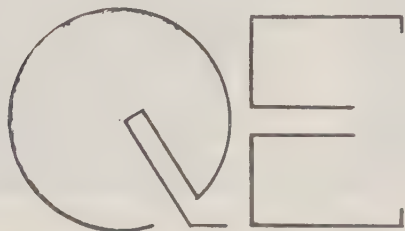
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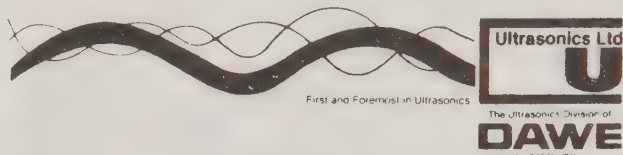
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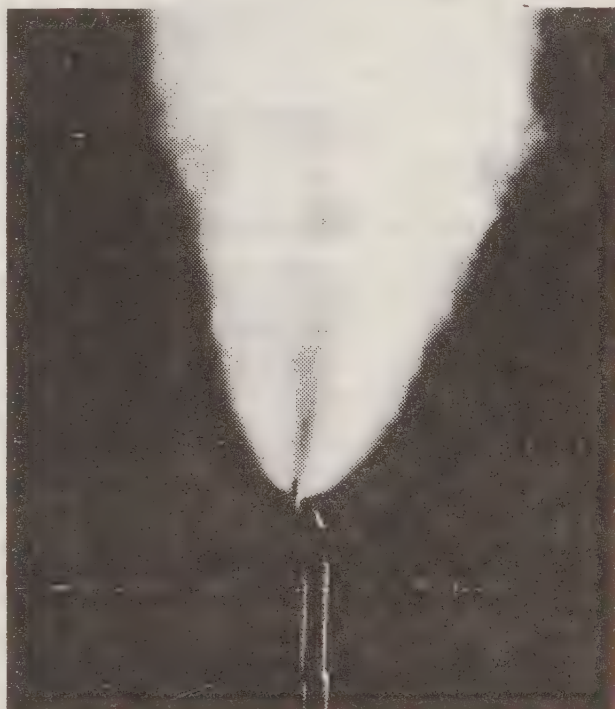
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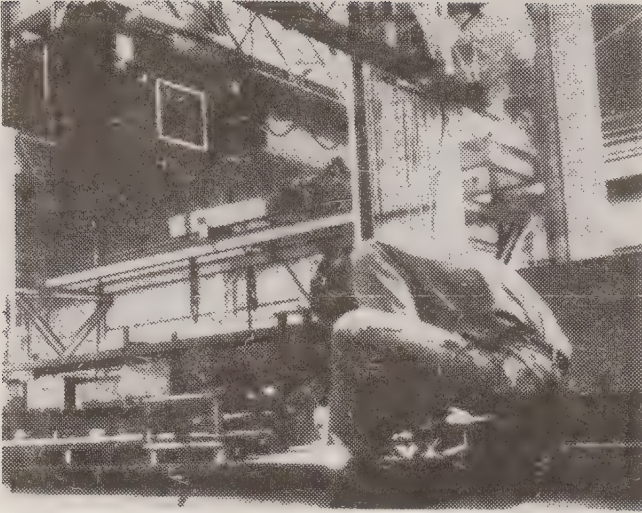
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AIR POLLUTION CONTROL

Airmaster Engineering Ltd.
Bacterol Ltd.
Bostock Hill & Rigby Ltd.
Electroloid Ltd.
ERG Odour Purification
Systems Ltd.
Euroform (UK)
Lodge-Cottrell Ltd.
Mass Transfer International
Metal Box Engineering
Provenair Ltd.
United Air Specialists (UK) Ltd.
Van Tongeren UK Ltd.

AIR POLLUTION MEASUREMENT

Analysis Automation Ltd.
Bostock Hill & Rigby Ltd.
Bristol Industrial & Research
Associates Ltd.
Casella London Ltd.

Dionex (UK) Ltd.
Glass Developments Ltd.
Quality Environment Ltd.
Techmation Ltd.

AIR PURIFICATION PROCESS EQUIPMENT

Bacterol Ltd.
ERG Odour Purification
Systems Ltd.
Mass Transfer International
Metal Box Engineering

AIR STERILISATION

Bacterol Ltd.

AIR VELOCITY METERS

Bristol Industrial & Research
Associates Ltd.

ANALYSIS APPARATUS : AEROSOLS

Analysis Automation Ltd.
Dionex (UK) Ltd.

ANALYSIS APPARATUS : CHEMICALS

Dionex (UK) Ltd.

ANALYSIS APPARATUS : FUELS

Dionex (UK) Ltd.

ANALYSIS APPARATUS : GASES

Analysis Automation Ltd.
Quality Environment Ltd.
Techmation Ltd.

ANALYSIS APPARATUS : NOISE VIBRATION

Bruel & Kjaer (UK) Ltd.

ANALYSIS APPARATUS : PARTICLES/ POWDERS

Quality Environment Ltd.

ANALYSIS APPARATUS : WATER

Dionex (UK) Ltd.
Quality Environment Ltd.

Techmation Ltd.

ANTI-SOOT & CORROSION : TREATMENT

Bostock Hill & Rigby Ltd.

Nalfloc Ltd.

ARRESTORS

Mass Transfer International

AUTOMATIC CONTROL EQUIPMENT

IMI Norgren Enots Ltd.

BACTERIA SAMPLING EQUIPMENT

Casella London Ltd.

Quality Environment Ltd.

BAG HOUSES

Airmaster Engineering Ltd.

Lodge-Cottrell Ltd.

Van Tongeren UK Ltd.

BIFURCATED FANS (PVC & POLYPROPYLENE)

Electroloid Ltd.

BLOWERS

Peabody Holmes Ltd.

BOILER FEEDWATER TREATMENT

Bostock Hill & Rigby Ltd.

Nalfloc Ltd.

BOILERS : GAS FIRED

Hamworthy Engineering Ltd.

BOILERS : PACKAGED, OIL FIRED

Hamworthy Engineering Ltd.

BURNERS : GAS

Hamworthy Engineering Ltd.

Peabody Holmes Ltd.

BURNERS : OIL

Hamworthy Engineering Ltd.

Peabody Holmes Ltd.

BURNERS : SOLID FUEL

Peabody Holmes Ltd.

CANOPY HOOD

Atmospheric Control

Engineers Ltd.

Electroloid Ltd.

Provenair Ltd.

CENTRIFUGAL FANS (PVC & POLYPROPYLENE)

Electroloid Ltd.

CHEMICAL HANDLING PLANT

Electroloid Ltd.

CHIMNEYS

F.E. Beaumont Ltd.

CHIMNEYS : CLADDING, ALUMINIUM

F.E. Beaumont Ltd.

CHIMNEYS : INSULATED

F.E. Beaumont Ltd.

CLEAN ROOMS

Atmospheric Control

Engineers Ltd.

COMBUSTION CONTROL

Hamworthy Engineering Ltd.

COMBUSTION TESTING EQUIPMENT

Analysis Automation Ltd.

COMPRESSORS : OIL FREE

Hamworthy Engineering Ltd.

CONSULTING ENGINEERS : AIR

Atmospheric Control

Engineers Ltd.

Bostock Hill & Rigby Ltd.

CONSULTING ENGINEERS : NOISE

Atmospheric Control

Engineers Ltd.

Bostock Hill & Rigby Ltd.

CONSULTING ENGINEERS : RADIATION

Bostock Hill & Rigby Ltd.

CONSULTING ENGINEERS : WASTE

Bostock Hill & Rigby Ltd.

CONSULTING ENGINEERS : WATER
Bostock Hill & Rigby Ltd.

CONTRACTORS : HEATING,
VENTILATING & AIR CONDITIONING
Atmospheric Control
Engineers Ltd.

CONTROLLERS : FLOW
Provenair Ltd.

CONTROLLERS : GAS PRESSURE
IMI Norgren Enots Ltd.
Techmation Ltd.

COOLERS : AIR OR GAS
Atmospheric Control
Engineers Ltd.
Metal Box Engineering

COOLERS : LIQUID
Atmospheric Control
Engineers Ltd.

COOLERS : WATER
Atmospheric Control
Engineers Ltd.

CYCLONES
Casella London Ltd.
Lodge-Cottrell Ltd.
Peabody Holmes Ltd.
Provenair Ltd.
Van Tongeren UK Ltd.

DAMPERS : GAS-TIGHT
Metal Box Engineering

DATA LOGGING EQUIPMENT
Quality Environment Ltd.
Techmation Ltd.

DEODERANT PREPARATION &
DISPENSERS
The Airwick Company
Bacterol Ltd.

DETECTORS : DUST
Analysis Automation Ltd.

Bristol Industrial & Research
Associates Ltd.

DETECTORS : EXPLOSIVE GASES
Analysis Automation Ltd.
Crowcon Instruments Ltd.

DETECTORS : SMOKE
Glass Developments Ltd.

DETECTORS : SO₂
Analysis Automation Ltd.
Casella London Ltd.
Quality Environment Ltd.
Techmation Ltd.

DETECTORS : TOXIC GASES
Analysis Automation Ltd.
Crowcon Instruments Ltd.

DISCHARGE VALVES
Lodge-Cottrell Ltd.
Provenair Ltd.

DISTILLATION EQUIPMENT
Mass Transfer International

DRYERS : AIR
Lodge-Cottrell Ltd.

DRYERS : FLUIDISED BED
Lodge-Cottrell Ltd.
Van Tongeren UK Ltd.

DRYERS : GAS ABSORPTION
Mass Transfer International

DUCTING
Atmospheric Control
Engineers Ltd.
Electroloid Ltd.
ERG Odour Purification
Systems Ltd.
Simdean Resin Fabrications Ltd.

DUST CLASSIFICATION PLANT
Lodge-Cottrell Ltd.
Van Tongeren UK Ltd.

DUST COLLECTION EQUIPMENT

Airmaster Engineering Ltd.
 Dust Control Equipment Ltd.
 Lodge-Cottrell Ltd.
 Metal Box Engineering
 Provenair Ltd.
 Van Tongeren UK Ltd.

DUST COLLECTION EQUIPMENT & PLANT

Airmaster Engineering Ltd.
 Dust Control Equipment Ltd.
 Lodge-Cottrell Ltd.
 Metal Box Engineering
 Peabody Holmes Ltd.
 Provenair Ltd.

DUST COLLECTORS

Airmaster Engineering Ltd.
 Dust Control Equipment Ltd.
 Lodge-Cottrell Ltd.
 Provenair Ltd.
 Van Tongeren UK Ltd.

DUST EXTRACTION, CYCLONES

Lodge-Cottrell Ltd.
 Provenair Ltd.
 Van Tongeren UK Ltd.

DUST SAMPLING EQUIPMENT

Bostock Hill & Rigby Ltd.
 Bristol Industrial & Research
 Associates Ltd.
 Casella London Ltd.
 Quality Environment Ltd.

DUST SUPPRESSION EQUIPMENT

Provenair Ltd.
 Ultrasonics Ltd.

EFFLUENT TREATMENT : MEDIA

Mass Transfer International

EFFLUENT TREATMENT : PLANT/
SYSTEMS

Bostock Hill & Rigby Ltd.
 Hamworthy Engineering Ltd.
 Mass Transfer International

EFFLUENT TREATMENT : SOLUBLE OIL
PLANT

Bostock Hill & Rigby Ltd.

ECONOMISERS : FUEL ELECTROSTATIC
PRECIPITATORS

Lodge-Cottrell Ltd.

ELECTROSTATIC PRECIPITATORS

Lodge-Cottrell Ltd.
 United Air Specialists (UK) Ltd.

ELECTROSTATIC UNIT AIR CLEANERS

United Air Specialists (UK) Ltd.

EXHAUST PURIFICATION

Bostock Hill & Rigby Ltd.

FABRIC FILTERS

Airmaster Engineering Ltd.
 Dust Control Equipment Ltd.

FANS & BLOWERS

Simdean Resin Fabrications Ltd.

FILTERS : AIR : COMPRESSED

IMI Norgren Enots Ltd.

FILTERS : DUST

Dust Control Equipment Ltd.
 IMI Norgren Enots Ltd.

FILTERS : WATER

IMI Norgren Enots Ltd.

FLUE DUST EXTRACTION PLANT

Airmaster Engineering Ltd.
 Mass Transfer International
 Metal Box Engineering
 Peabody Holmes Ltd.
 Van Tongeren UK Ltd.

FLUE GAS DUST MONITORING DEVICE

Dionex (UK) Ltd.

FLUE GAS DUST SAMPLING EQUIPMENT

Analysis Automation Ltd.
 Bristol Industrial & Research
 Associates Ltd.
 Quality Environment Ltd.

FLUE GAS TREATMENT

Bostock Hill & Rigby Ltd.
 Lodge-Cottrell Ltd.
 Mass Transfer International
 Peabody Holmes Ltd.

FLUIDISED BED SYSTEMS

Lodge-Cottrell Ltd.

FUEL ADDITIVES

Nalfloc Ltd.

FUEL EFFICIENCY ADVISORY SERVICE

Bostock Hill & Rigby Ltd.

FUELS : SOLID SMOKELESS

Coalite Fuels & Chemicals Ltd.
 Rexco Ltd.

FUGITIVE DUST SAMPLING

Bristol Industrial & Research
 Associates Ltd.

FUME EXTRACTION FANS

Electroloid Ltd.

FUME REMOVAL EQUIPMENT

Atmospheric Control
 Engineers Ltd.
 Bostock Hill & Rigby Ltd.
 Electroloid Ltd.
 ERG Odour Purification
 Systems Ltd.
 Euroform (UK)
 Peabody Holmes Ltd.
 Simdean Resin Fabrications Ltd.
 United Air Specialists (UK) Ltd.
 Van Tongeren UK Ltd.

FURNACES, OVENS, KILNS, ETC.

Metal Box Engineering

GAS CLEANING PLANT

Airmaster Engineering Ltd.
 Lodge-Cottrell Ltd.
 Peabody Holmes Ltd.
 Ultrasonics Ltd.
 Van Tongeren UK Ltd.

GAS COOLERS

Metal Box Engineering
 Ultrasonics Ltd.

GAS DETECTORS

Crowcon Instruments Ltd.
 Techmation Ltd.

GAS PURIFIERS

Mass Transfer International

GAS SCRUBBERS & WASHERS

Bostock Hill & Rigby Ltd.
 Electroloid Ltd.
 Lodge-Cottrell Ltd.
 Mass Transfer International
 Peabody Holmes Ltd.
 Ultrasonics Ltd.

GRIT ARRESTORS

Mass Transfer International
 Van Tongeren UK Ltd.

HEAT EXCHANGERS

Atmospheric Control
 Engineers Ltd.
 Metal Box Engineering
 United Air Specialists (UK) Ltd.

HEAT PUMPS

Atmospheric Control
 Engineers Ltd.

HEAT TRANSFER SYSTEMS

Metal Box Engineering

HEATING EQUIPMENT : INDUSTRIAL
(PROCESS/SPACE)

Hamworthy Engineering Ltd.

HUMIDIFIERS

Ultrasonics Ltd.

HUMIDITY RECORDERS

Casella London Ltd.

INCINERATORS

Hamworthy Engineering Ltd.
 The Incinerator Company Ltd.

Peabody Holmes Ltd.

INDICATORS : HUMIDITY
Casella London Ltd.

INDICATORS : SOX
Analysis Automation Ltd.
Techmation Ltd..

INDICATORS : SOUND LEVEL
Bruel & Kjaer (UK) Ltd.

INSULATION : ACOUSTICS
Atmospheric Control
Engineers Ltd.

KITS : ANALYSIS, TESTING,
SAMPLING
Bostock Hill & Rigby Ltd.

LABORATORY INSTALLATIONS
Electroloid Ltd.

LECTURES, FILMSTRIPS, TAPE
SLIDES & NOTES
Diana Wyllie Ltd.

LEAK DETECTORS
Techmation Ltd.
Ultrasonics Ltd.

MASKING AGENTS
Bacterol Ltd.

MEASUREMENT & DETECTION
EQUIPMENT
Bostock Hill & Rigby Ltd.
Bristol Industrial & Research
Associates Ltd.
Dionex (UK) Ltd.
Quality Environment Ltd.
Techmation Ltd.

MECHANICAL COLLECTORS
Van Tongeren UK Ltd.

METEOROLOGICAL INSTRUMENTS
Bristol Industrial & Research
Associates Ltd.

Casella London Ltd.

METERS : SOUND LEVEL
Bruel & Kjaer (UK) Ltd.
Ultrasonics Ltd.

MONITORING EQUIPMENT
Bristol Industrial & Research
Associates Ltd.
Bruel & Kjaer (UK) Ltd.
Casella London Ltd.
Techmation Ltd.

NOISE CONTROL CONSULTANTS
Atmospheric Control
Engineers Ltd.
Bostock Hill & Rigby Ltd.

NOISE CONTROL MATERIALS
Atmospheric Control
Engineers Ltd.

NOISE/VIBRATION : CONTROL
ENGINEERS
Atmospheric Control
Engineers Ltd.

NOISE/VIBRATION : MEASURING
EQUIPMENT
Bruel & Kjaer (UK) Ltd.
Ultrasonics Ltd.

NOZZLES : SPRAY
Bacterol Ltd.
Ultrasonics Ltd.

ODOUR ABSORPTION
Electroloid Ltd.
ERG Odour Purification
Systems Ltd.
Mass Transfer International
Simdean Resign Fabrications Ltd.

ODOUR ADSORPTION
ERG Odour Purification
Systems Ltd.

ODOUR CONTROL
The Airwick Company

Bacterol Ltd.
 Bostock Hill & Rigby Ltd.
 ERG Odour Purification
 Systems Ltd.
 Mass Transfer International
 Metal Box Engineering
 Sterling Industrial

ODOUR CONTROL : CATALYTIC
 COMBUSTION
 Cleerburn Ltd.

OIL DISPERSANTS
 Nalfloc Ltd.

OIL MIST ELIMINATORS
 Euroform (UK)

OIL SPILLAGE : CONTROL/RECOVERY
 EQUIPMENT
 Bostock Hill & Rigby Ltd.

OVENS : INDUSTRIAL
 Metal Box Engineering

OXYGEN ANALYSERS
 Analysis Automation Ltd.
 Crowcon Instruments Ltd.

PIPELINE EQUIPMENT
 IMI Norgren Enots Ltd.

POLLUTION CONTROL ADVISORY
 SERVICES
 Bacterol Ltd.
 Bostock Hill & Rigby Ltd.
 Metal Box Engineering
 Van Tongeren UK Ltd.

PROCESS INSTRUMENTATION
 Analysis Automation Ltd.
 IMI Norgren Enots Ltd.
 Techmation Ltd.

PUMPS
 Hamworthy Engineering Ltd.

RADIANT HEATING
 Hamworthy Engineering Ltd.

REFRIGERATION PLANT
 Atmospheric Control
 Engineers Ltd.

RE-ODERANT SPRAY FLUIDS
 Bacterol Ltd.

RESEARCH & DEVELOPMENT FACILITIES
 Bostock Hill & Rigby Ltd.

SAFETY EQUIPMENT
 Bostock Hill & Rigby Ltd.

SCRUBBERS
 Bostock Hill & Rigby Ltd.
 Electroloid Ltd.
 ERG Odour Purification
 Systems Ltd.
 Lodge-Cottrell Ltd.
 Mass Transfer International
 Peabody Holmes Ltd.
 Simdean Resign Fabrications Ltd.
 Van Tongeren UK Ltd.

SEPARATORS : GASES
 Euroform (UK)
 Van Tongeren UK Ltd.

SEPARATORS : LIQUID
 Electroloid Ltd.
 Van Tongeren UK Ltd.

SEWAGE TREATMENT PLANT
 Hamworthy Engineering Ltd.
 Mass Transfer International

SO2 SAMPLERS
 Casella London Ltd.
 Glass Developments Ltd.

SPRAYING APPARATUS FOR DEODERANTS
 ETC.
 Bacterol Ltd.
 IMI Norgren Enots Ltd.

STACK EMISSIONS : MONITORING
 EQUIPMENT
 Bristol Industrial & Research
 Associates Ltd.

Dionex (UK) Ltd.
Quality Environment Ltd.

SULPHUR DIOXIDE REMOVAL SYSTEMS
Mass Transfer International

TANKS & TANK LININGS
Electroloid Ltd.
Simdean Resin Fabrications Ltd.

TEMPERATURE RECORDERS
Casella London Ltd.

TOWERS
Electroloid Ltd.
Lodge-Cottrell Ltd.

UNIT DUST COLLECTORS
Dust Control Equipment Ltd.
Provenair Ltd.

VENTURI SCRUBBERS
Electroloid Ltd.
ERG Odour Purification
Systems Ltd.
Lodge-Cottrell Ltd.
Peabody Holmes Ltd.

WARM AIR HEATING SYSTEMS
Cleerburn Ltd.

WASHERS : AIR OR GAS
Peabody Holmes Ltd.

WASTE DISPOSAL EQUIPMENT
Cleerburn Ltd.
Peabody Holmes Ltd.

WASTE DISPOSAL : LIQUID
Metal Box Engineering

WASTE DISPOSAL SPECIALISTS
Bostock Hill & Rigby Ltd.

WASTE HEAT RECOVERY
Atmospheric Control
Engineers Ltd.
Cleerburn Ltd.
The Incinerator Company Ltd.
Metal Box Engineering

WASTE MATERIAL DISPOSAL FURNACES
Cleerburn Ltd.
Hamworthy Engineering Ltd.
The Incinerator Company Ltd.

WASTE PURIFICATION
Bostock Hill & Rigby Ltd.

WATER PURITY MONITORING EQUIPMENT
Bristol Industrial & Research
Associates Ltd.

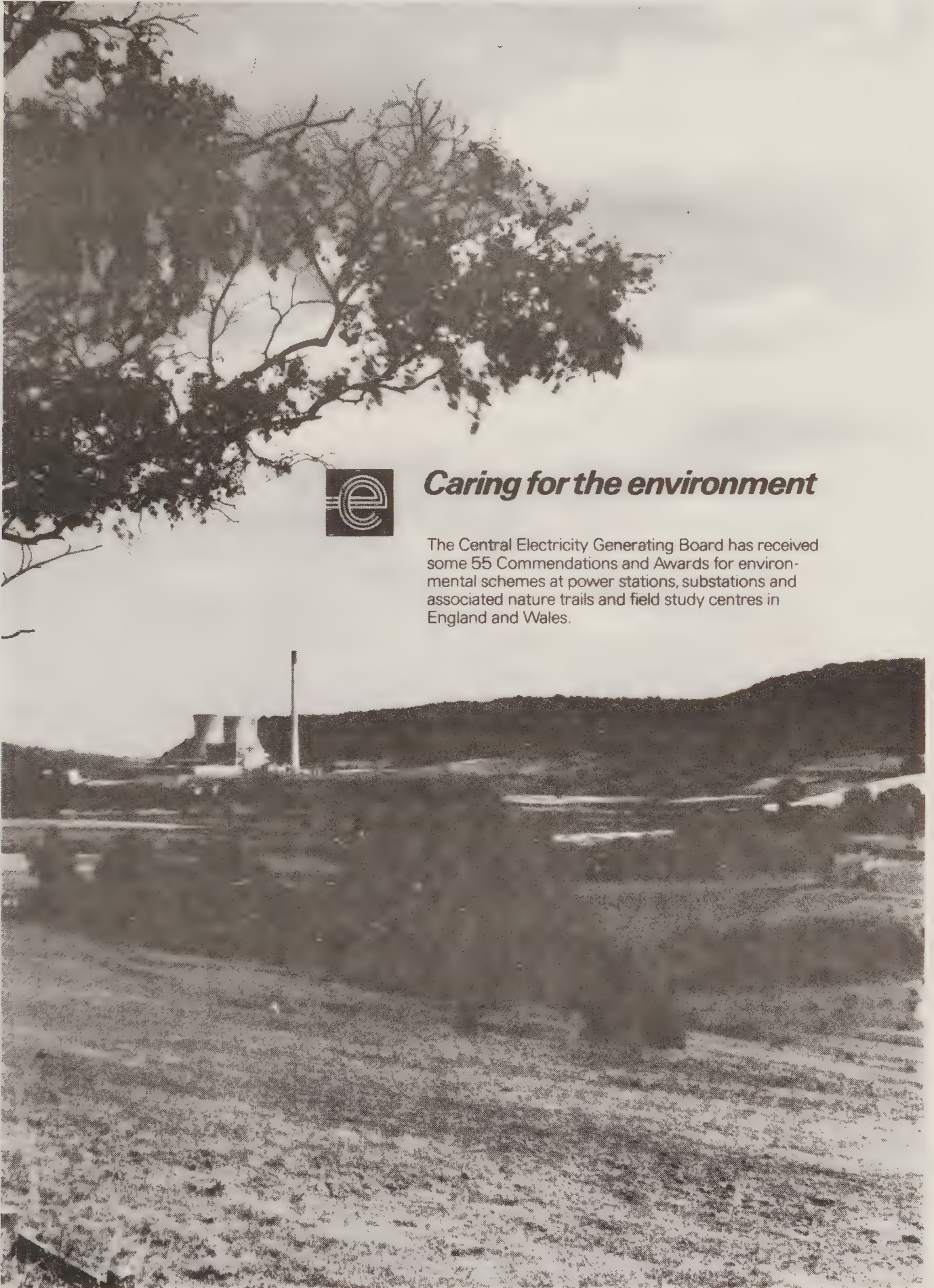
WATER TREATMENT PLANT
Bostock Hill & Rigby Ltd.
Lodge-Cottrell Ltd.
Nalfloc Ltd.

WET ARRESTORS
Dust Control Equipment Ltd.
Electroloid Ltd.
Mass Transfer International
Peabody Holmes Ltd.
Van Tongeren UK Ltd.



Caring for the environment

The Central Electricity Generating Board has received some 55 Commendations and Awards for environmental schemes at power stations, substations and associated nature trails and field study centres in England and Wales.



Library Copy

1984-85 NSCA MEMBERS HANDBOOK

national society for clean air

1984-85 nsca MEMBERS HANDBOOK

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CONTENTS

NATIONAL SOCIETY FOR CLEAN AIR	1
MEMORANDUM AND ARTICLES OF ASSOCIATION AND BYE-LAWS	
Memorandum of Association	2
Articles of Association	4
Bye-laws	12
HONORARY OFFICERS	16
THE COUNCIL OF THE SOCIETY	16
NSCA STAFF	18
WHO'S WHO 1984-1985	19
ANNUAL REPORT AND ACCOUNTS 1983-1984	41
DIVISIONAL MEMBERSHIP AND REPORTS	
Division 1 - Scotland	51
Division 2 - Northern Ireland	51
Division 3 - Northern	53
Division 4 - North West	54
Division 5 - Yorkshire & Humberside	56
Division 6 - West Midlands	59
Division 7/8 - East Midlands and Eastern	60
Division 9/10 - London & South East and Central Southern	63
Division 11 - South West	66
Division 12 - South and Mid Wales	68
SMOKE CONTROL AREAS	71
DIRECTORY OF ORGANISATIONS - GREAT BRITAIN	80
DIRECTORY OF ORGANISATIONS - OVERSEAS	91
GUIDE TO FILMS AND FILMSTRIPS	100
DIRECTORY OF CONSULTANTS	112
TRADE DIRECTORY AND BUYER'S GUIDE	
Alphabetical Entries	119
Classified Entries	129
ADVERTISER	
Central Electricity Generating Board	137

NATIONAL SOCIETY FOR CLEAN AIR

THE NATIONAL SOCIETY FOR CLEAN AIR (NSCA) is a non-governmental voluntary organisation and a registered charity. It is one of the oldest environmental groups in the UK (foundation: the Coal Smoke Abatement Society of 1899). It has excellent and long-established contacts with central/local government, with government agencies, with professional bodies, with industry, with other environmental groups, and with the press. It is a founder member of the International Union of Air Pollution Prevention Associations, and provides the Secretariat for the Union. It is an Associate Member of the International Association Against Noise.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities (metropolitan, district and county councils), universities and other educational establishments, corporate bodies representing learned and professional institutions, the fuel industries, and other industrial companies.

THE SOCIETY'S OBJECTIVE is to secure environmental improvement by promoting clean air through the reduction of air pollution, noise and other contaminants, while having due regard for other aspects of the environment. It does this by advancing the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention. Funding is by members' subscriptions, donations and monies raised by activities.

THE SOCIETY'S PRINCIPAL ACTIVITIES ARE: Organising Conferences and Technical Training Workshops. Holding national and regional meetings and exhibitions. Making representations to Government, other Authorities and Industry, both as a consulted body and on its own initiative, on all matters relating to air pollution and noise, including: legislation drafting, statutory controls, standards, technical concerns, local and national issues. Publishing: conference and technical proceedings, books, reports, papers and educational material. The Society's journal 'Clean Air' is published quarterly. Operating an Information Service and Library.

ORGANISATION The elected Council of the Society, with a number of reporting Committees, governs the organisation and policies of the Society. An administrative staff, headed by the Secretary General, is employed at the Brighton Headquarters. The Society has 12 Divisions throughout the UK, which arrange activities and meetings at regional level, and consider local issues. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1981
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION OF THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".
2. The registered office of the Society will be situate in England.
3. (1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.
- (2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.
- (B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.
- (C) To encourage the adoption of methods to reduce and prevent pollution.
- (D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.
- (E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society's objects.
- (F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.
- (G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.
- (H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.
- (I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
- (J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
- (K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
- (L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the

creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.

(M) To take all such other steps as will further the attainment of the above objects or any of them.

PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.

PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.

PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary of State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.
 PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.
5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceed-

ing 5s(25p).

9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

ARTICLES OF ASSOCIATION OF THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolutions on 5 October 1981 and 1 October 1984.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.

Words importing the masculine gender only shall include the feminine gender and vice versa and Words importing persons shall include corporations.

Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Society for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership:

Individual Members

(c) (i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-laws of the Society.

Local Authority Members

(d) (i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than five Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation *Local Authority* shall be deemed to include *Health Authorities* and *Water Authorities* or such other like authorities as the Council shall from time to time admit for membership.

Corporate Members

(e) (i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but if it desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

Sustaining Members

(f) Any member who subscribes not less than the sum as prescribed in the Bye-laws for this class of membership shall be eligible for admission as a Sustaining Member.

Honorary Members

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

Student Members

(h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

Application for Membership

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

Resignation of Members

(j) (i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

- (a) whose annual subscription has remained unpaid for two successive years, or
- (b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or

(c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

Annual Subscriptions

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETING

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings other than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental omissions to give notice of a meeting to, or the non-receipt of such notice by, any

person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:

(a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.

(b) Appointing Auditors and fixing their remuneration.

(c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if

any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a single term of three years

(c) Vice-Presidents shall not exceed nine in number nor more than three be elected annually.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term *National or similar organisation* shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:

- (a) If he ceased to be a member or a Representative of a member of the Society;
- (b) If by notice in writing to the Society he resigns his office;
- (c) If a receiving order is made against him or he makes any arrangement or composition with his creditors;
- (d) If he becomes of unsound mind;
- (e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
- (f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36.(i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation of the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before

the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

- (a) As to entrance fees (if any) payable in respect of membership of the Society.
- (b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
- (c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
- (d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
- (e) As to the manner in which the Elections of Officers and Council members shall be conducted.
- (f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37.(i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In cases of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be

present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provisions of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Ordinary Resolution dated the 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980, 5 October 1981, 18 October 1982, 31 October 1983 and 1 October 1984.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

- (i) The annual subscription payable by an Individual Member shall be not less than Nine Pounds. On attainment of the age of 65 on payment of the sum of Eighteen Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.
- (ii) Individuals may on payment of not less than one hundred and eighty pounds become Life Members of the Society.

(b) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£127.00
100,001 to 250,000	£155.00
250,001 to 500,000	£188.00
500,001 to 1,000,000	£246.00

For each additional 500,000 or part thereof – £25.00.

- (c) Corporate Members and unincorporated bodies appointed in accordance with Article 4(e)(ii). The annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:
 - (i) Small local civic societies, colleges, schools and similar organisations – £16.00
 - (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms – £90.00
 - (iii) Industrial organisations – £127.00
- (d) **Sustaining Members**
The annual subscription for Sustaining Members shall be not less than £200.00.
- (e) **Membership – Special Cases**
The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3(a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) Corporate Members

- (i) Corporate Members paying a subscription of £16.00 per annum shall each be entitled to appoint one representative
- (ii) Corporate Members paying a subscription of £90.00 per annum shall each be entitled to appoint three representatives
- (iii) Corporate Members paying a subscription of £127.00 or more per annum shall each be entitled to appoint five representatives
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as Officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members Handbook of the Society;
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. **Scotland**
2. **Northern Ireland**
3. **Northern:** Cleveland, Cumbria (in part, only – Allerdale District Council, City of Carlisle and Eden District Council) Durham, Northumberland, Tyne and Wear.
4. **North West:** Cheshire; Clwydd; Cumbria (in part, only – Barrow-in-Furness Borough Council, Copeland District Council and South Lakeland District Council);, Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. **Yorkshire and Humberside:** Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. **West Midlands:** Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. **East Midlands:** Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.

8. **Eastern:** Essex, Norfolk, Suffolk.
 9. **London and South East:** East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
 10. **Central Southern:** Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
 11. **South West:** Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
 12. **South and Mid Wales:** Wales except for Clwyd and Gwynedd.
- (b) Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.
 - (c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.
 - (d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

- 6(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.
- (b) Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.
- (c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

- 7(a) The business of the Society shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.
- (b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen and the following Committees:
 - (i) Finance and Administration
 - (ii) Conference and Promotions
 - (iii) Technical
 - (iv) Parliamentary and Local Government
 - (v) Any other Committee considered by the Council to be necessary.
- (c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:
 1. To implement Council policy
 2. To ensure that the programme of the Standing Committees are comprehensive and appropriately interlocking
 3. To formulate proposals for policy changes
 4. To act on behalf of the Council in cases of urgency
 5. To report to the next following meeting of Council any action taken on its behalf.
- (d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.
- (e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the office of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President:	Prof.D.G.T. Williams, MA, LLB
Immediate Past President:	Naomi E.S. Sargant
Vice Presidents:	A.Archer, MBE; Stanley E. Cohen, CBE, FRSA; The Rt.Hon. The Earl of Cranbrook; The Rt.Hon. Michael Foot, MP; D.F. Haynes, MP; Madron R. Seligman, MEP, BA
Hon. Treasurer:	B.H. Edwick
Chairman of Council:	M. Beaumont
Deputy Chairmen:	R.W.C. Wheatley I.W. Barker
Immediate Past Chairman:	Cllr. L. Poole

PAST PRESIDENTS: Dr. H.A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F.E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE; Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE; Sir Alan Wilson, FRS; Sir John Charrington; Sir Kenneth Hutchison, CBE, FRS; Mr. Stanley E. Cohen, CBE; Sir John Greenborough, KBE; Professor P.J. Lawther, CBE; Lord Flowers, FRS; Lord Ezra, MBE; Naomi E.S. Sargant.

THE COUNCIL OF THE SOCIETY

Elected Divisional Representatives:

Scotland	E.Gibson, I. MacPherson
Northern Ireland	O. Hetherington
Northern	Cllr. L. Poole, W.C.B. Robson, Cllr. T.W. Yellowley
North West	M. Dickinson, W.D. Gartside, D. Horner, I. Liversidge, J.B. Marsh, W.F. Snow
Yorkshire & Humberside	I.W. Barker, D. Greenwood, G.W. Kay, G.T. Phillips
West Midlands	Cllr. J.R. Griffiths, Cllr. G.T. Randall, T. Townsend
East Midlands	Cllr. R.S. Chamberlain, K.R. Enderby, D.F. Haynes, Cllr. Mrs. E.J. Inglefield
London & South East	Dr. D. Ball, J.J. Beagle, M. Beaumont, J. Clancey, P. Cooney, H. Giblin, Mrs. G.E. Naylor, Dr. M.J.R. Schwar, Prof. R.S. Scorer
Central Southern	K.B. Dorman, A.J. Rees, R.F. Shapter
South West	H. Dawson, C. Howell, Cllr. D.R. Lovelace
South & Mid Wales	Cllr. J.R.P. Evans, T. Jones, Cllr. H.I. Thomas

Appointed Representatives of National Bodies:

British Gas Corporation: Dr. F.E. Shephard
 British Steel Corporation: D.A. Harrison
 Central Electricity Generating Board: A.J. Clarke
 E.P.E.M.A.: K.S. Dunn
 Industrial Gas Cleaning Association: D. Morgan-Jones
 Institute of Petroleum: G. Parkinson
 Low Temperature Coal Distillers' Association: R. Pane
 National Coal Board: R.W.C. Wheatley
 Solid Smokeless Fuels Federation: I. MacKay
 The Institute of Environmental Health Officers: R.W. Lander
 The Institution of Gas Engineers: Dr. F.E. Shephard
 Women's Solid Fuel Council: Miss K. Bradbury

STANDING COMMITTEES

Finance and Administration

A.J. Clarke	R.F. Shapter
M. Dickinson	Cllr. T.W. Yellowley
K.S. Dunn	Chairman of C&P Committee
H. Giblin	Chairman of Technical Committee
D. Greenwood	Chairman of P&LG Committee
G.T. Phillips	Chairman of Noise Committee

Conference and Promotions

Cllr. R.S. Chamberlain	C. Howell
K.B. Dorman	Mrs. E.M.L. Naylor
K.R. Enderby	Cllr. G.T. Randall
I.R. Liversidge	A.J. Rees
E. Gibson	Cllr. H.I. Thomas

Technical

J.J. Beagle
 P.A. Cooney
 H. Dawson
 Cllr. J.R.P. Evans
 W.D. Gartside
 G.W. Kay
 I. MacPherson
 Dr. M.J.R. Schwar
 Prof. R.S. Scorer
 Dr. F.E. Shephard
 W.F. Snow

Co-opted

Dr. R.A. Barnes
 G. Barrett
 J.H. Boddy
 Dr. S.R. Craxford
 Dr. M. Hillis
 B. Lees
 R.J. Perriman
 Dr. W.C. Turner
 Dr. M. Williams

Parliamentary and Local Government

Cllr. J. Griffiths	Cllr. D.R. Lovelace
D.F. Haynes	I. MacKay
D. Horner	J.B. Marsh
Cllr. Mrs. E.J. Inglefield	R. Pane
T. Jones	W.C.B. Robson
R.W. Lander	T. Townsend

Noise

J.J. Beagle	H. Nowell
H. Dawson	A.J. Rees
J. Evans	D.R. Romaine
A.J. Gibbon	Dr. F.E. Shephard
T. Jones	T. Townsend
G. Kaufman	G.H. Vulkan
G.W. Kay	J. Wade

Note: For the time being, until the Committee is fully established, membership of the Noise Committee consists of Members of Council, representatives nominated by the Society's Division and co-opted members.

Note: Honorary officers are ex officio members of all four standing committees.

STAFF

Secretary General: Air Commodore John Langston, CBE, FBIM

Administration, Accounts, Print and Sales of Publications

Administration Officer: Peter J. Mitchell

Secretary to Secretary General
& Administration Officer, Council &
Standing Committees Administration: Vanessa John

Membership, Publications Sales & Accounts, Sue Miles
Conference etc. Registrations: Lynn Carden

Editorial, Information/Library Service and Press Relations

Editor, Information Officer and Librarian: Jane Dunmore

Assistant: Penny Gilbert

Secretary: Tricia Sice

WHO'S WHO

PROFESSOR D.G.T. WILLIAMS, MA, LLB, President of the Society, has been President of Wolfson College, Cambridge, since October 1980 and Reader in Public Law at the University of Cambridge since 1976, becoming Chairman of the Faculty of Law at the University in 1981. His academic interests lie principally in the fields of constitutional and administrative law, and in recent years he has been particularly interested in matters relating to the environment. He was a member of the Clean Air Council 1971 - 1979, of the Commission on Energy and the Environment 1978 - 1981, and of the Royal Commission on Environmental Pollution 1976 - 1983. In addition, he was a member of the Council on Tribunals, 1972 - 1982. David Williams was born in Carmarthen in Wales, went to University at Cambridge, and was called to the Bar in 1956. He was a Commonwealth Fund (Harkness) Fellow in the United States, 1956 - 1958, and taught at the Universities of Nottingham and Oxford before returning to Cambridge in 1967, where he is now Rouse Ball Professor of English Law.

NAOMI E.S. SARGANT, Immediate Past President of the Society, started life as a Market and Social Researcher with Gallup Poll. She joined the Open University at its inception, starting up its survey research department, and developing new strategies for the research and evaluation of media-based education for adults, and then took on a four year stint as Pro Vice-Chancellor for Student Affairs. She has written widely on the education of adults, and chaired the ACACE committee responsible for its policy document "Continuing Education: from policies to practice". She has also been heavily involved in consumer affairs, chairing the National Gas Consumers' Council for three years, sitting on the National Consumer Council, and was a member of the Commission on Energy and the Environment. In 1981, Naomi Sargent was appointed Senior Commissioning Editor, responsible for education and programming, for Channel 4 TV. She is married with three sons.

A.(MICK) ARCHER, MBE, Vice President of the Society, was formerly City Environmental Health Officer for Birmingham and is a past President of the Institution of Environmental Health Officers. He was appointed a Member of the Royal Commission on Environmental Pollution in 1981 and was Chairman of the Standing Conference of Co-operating Bodies from 1980 to 1983. Mr. Archer was also Chairman of the Steering Committee on Environmental

Lead in Birmingham and a member of the Working Parties on Chimney Heights, Iron Foundries and Grit and Dust.

STANLEY E. COHEN, CBE, FRSA, Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first city to be so controlled, and also responsible for the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he initiated action in 1964 to reduce pollution from motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made equipment.

THE RT. HON. THE EARL OF CRANBROOK, Vice President of the Society, is a graduate of the universities of Cambridge and Birmingham. From 1956 - 1970, he was employed as a biologist in several posts in S.E. Asia. Lord Cranbrook has been a member of the Royal Commission on Environmental Pollution since 1981 and of the Natural Environment Research Council since 1982. A member of sub-committee G (Environment), House of Lords Select Committee on the European Communities, since 1979, he was Chairman from 1980 - 1983; also a member of the House of Lords Select Committee on Science and Technology since 1980. Lord Cranbrook is a Trustee of the British Museum (Natural History) and President of the Suffolk Trust for Nature Conservation. He is married, with two sons and a daughter, and now lives and farms in Suffolk.

RT. HON. MICHAEL FOOT, MP, Vice President of the Society. Michael Foot, Leader of the Labour Party from 1980 - 1983, was educated at Leighton Park School, Reading, and Wadham College, Oxford, where he was President of the Union in 1933. He was Secretary of State for Employment from 1974-76, Leader of the House of Commons, 1976-79 and a member of the Labour Party National Executive Committee from 1971 - 1983. He is the author of a number of publications, including Armistice 1918-39, Trial of Mussolini, Brendan and Beverley, The Pen and the Sword, Parliament in Danger, Aneurin Bevan (Vols. I & II), Debts of Honour and Another Heart and Other Pulses. Michael Foot has been MP for Ebbw Vale from 1960 - 1983 and for Blaenau Gwent.

DAVID F. HAYNES, MP, Vice President of the Society, was elected MP for Ashfield in the May 1979 general election. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air

policies generally.

MADRON R. SELIGMAN, MEP, BA, Vice President of the Society, was educated at Harrow School and Balliol College, Oxford, where he was President of the Oxford Union in 1940. He has been Chairman of the Incinerator Company Ltd. since 1960 and is a Non-Executive Director of St. Regis International. Mr. Seligman has been a Member of the European Parliament representing Sussex West since 1979, and is Vice President of the Energy Research & Technology Committee of the European Parliament.

MAX BEAUMONT, FInst E, CIMG Tech E, MIPI, is Chairman of the Council of the Society, and represents the London and South East Division, NSCA. He was educated at Dulwich College, joined the family firm as an apprentice steeplejack and served as pilot RAFVR 1940-46. He is founder member and past Chairman of the Environmental Protection Equipment Manufacturers' Association, Past President of the National Federation of Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health & Safety Group and British Flue & Chimney Mfgs. Assoc. He is a member of 18 BSI Technical Committees and a holder of 4 British patents. Max Beaumont is Chairman of F.E. Beaumont Ltd.

CLLR. LEN POOLE, BEM, JP, is Immediate Past Chairman of the Council of the Society and represents the Northern Division, NSCA. He has been Chairman of the Northern Division and a Member of Council since re-organisation of local government, Chairman of the Environmental Health Committee, Middlesbrough B.C. (since re-organisation) and Member of South Tees Health Authority (representing Middlesbrough Council); Justice of the Peace (since 1965), Deputy Chairman Juvenile Court and Deputy Chairman Domestic Court. Cllr. Poole was responsible for persuading his Council to complete its domestic Smoke Control programme by the target date of 1979 (in spite of financial cut-backs). He is a Member of the Boroughs of Cleveland Pollution Group (Industrial Pollution) and an executive committee member of the Federation of Burial and Cremation Authorities. Cllr. Poole is also Executive Committee member of the National Council for Keep Britain Tidy and Deputy Chairman of the North Region 'Tidy North' Council. He is Deputy Chairman of the NSCA's recently formed Noise Committee.

ROBERT W.C. WHEATLEY represents the National Coal Board. He is senior Deputy Chairman of the Society's Council, and

Chairman of the Finance and Administration Committee.

Mr. Wheatley was born in Berwick-upon-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he became Technical Marketing Director and subsequently Director (Administration and Technical). In 1983 he was appointed Director of Scientific Control: in this post he is responsible for the technical aspects of the Board's scientific service in all coalfields. Mr. Wheatley has specific responsibilities to the Board on a wide range of scientific matters which include environmental issues and the testing of new types of solid fuel appliances and equipment. He has been a member of Council since 1966.

IVOR W. BARKER represents the Yorkshire and Humberside Division. He is Chairman of the Society's Parliamentary and Local Government Committee, and junior Deputy Chairman of the Society's Council. Mr. Barker is currently Director of Environmental Health, City of Sheffield, having formerly been with Manchester and with Leicester, where he held the post of Assistant Chief Environmental Health Officer with special responsibility for Pollution and Noise Control. Prior to his present appointment, he was Chief Environmental Health Officer with Brackness District Council. He has written and presented papers on air pollution and noise and in 1976 he attended Heathrow Fourth Terminal Public Inquiry as an expert witness on behalf of the Local Authority Aircraft Noise Council.

BRIAN HARRIS EDWICK, Honorary Treasurer of the Society, is Managing Director of F.E. Beaumont Ltd. He is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers.

DR. DAVID J. BALL, D.Phil, BSc, MInstP, represents the London and South East Division, NSCA. He graduated from Exeter and Sussex Universities and went on to work for the Bell System (USA), Queen Mary College London, and the National Physical Laboratory. In 1974 he joined the GLC's Environmental Sciences Division, becoming head of the Pollution Monitoring Group in 1982. Dr. Ball has contributed to a number of NSCA Workshops and is a regular contributor to "Clean Air".

JOSEPH J. BEAGLE, MIEU, represents the London & South East and Central Southern Divisions, NSCA, having become Honorary Secretary

on his retirement from local government in 1983. He was a Divisional EHO with the London Borough of Hammersmith & Fulham where he was responsible for noise and air pollution control matters, including investigations into lead pollution and asbestos control. Mr. Beagle is a member of the Technical and Noise Committees.

MISS KATHLEEN BRADBURY represents the Women's Solid Fuel Council. She was elected Chairman of WSFC in 1980 having previously been Chairman of the North Western Region WSFC. Originally with the Ministry of Fuel and Power, she was appointed to the Women's Advisory Council on Solid Fuel and served until 1973 as their Education Officer. She is the author of the WSFC Textbook 'Solid Fuel in the Home' and has been associated with NSCA for many years.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA, and is Deputy Chairman of the Conference & Promotions Committee. He has been a member of the East Midlands Division for sixteen years and a Member of the Council of the Society for ten years. He has been a Member of the Ashfield District Council and Kirby-in-Ashfield UDC for eighteen years, was Chairman of the Kirby-in-Ashfield UDC Health Committee from 1971/74, Chairman of the Ashfield DC Environmental Health Committee, 1974 to 1983, and is currently Chairman of Ashfield D.C. Cllr. Chamberlain was elected Chairman of the Central Nottinghamshire Community Health Council in February 1981 and became a member of the Central Nottinghamshire District Health Authority in 1982. He has served as Justice of the Peace for 12 years.

JAMES C. CLANCEY, OBE, FIPHE, FIEH, FRSH (Hon), MIEEnvSc, MAmerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is Vice President of the Institution of Public Health Engineers; an Honorary Fellow and life Vice President of the Royal Society of Health and a past Vice President of the Institution of Environmental Health Officers. He was Chairman of the Council of the Society, 1975/76 and has for thirty five years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

A. JOHN CLARKE, represents the Central Electricity Generating Board. He is an Honours graduate in Mechanical Engineering of Loughborough Technical College. After serving with a commission

in the Royal Engineers, he joined the British Electricity Authority in 1949, and held operational posts at several power stations. He joined Head-quarters in 1952 and began to specialise in air pollution problems. In 1961, he was appointed to head a small group dealing solely with environmental matters, and became Head of an expanded Environmental Section within the Planning Dept., CEGB, in 1978. (Now incorporated in Technology Planning & Research Division). Mr. Clarke has served on the Council of the Society since 1967, was Chairman of the Technical Committee 1972/78 and Chairman of the Council 1980/81. He currently serves on the Finance & Administration Committee.

PAUL A. COONEY represents the London & South East Division, NSCA. He is a Principal Environmental Health Officer at the London Borough of Greenwich where he heads a specialist unit responsible for pollution control within the Borough. Mr. Cooney has held this post for several years and accumulated a wealth of expertise on environmental matters, providing evidence to the Royal Commission for its 9th and 10th Reports. Recently he has been a member of the London Environmental Health Officers' Working Party on Pollution; the IEHO's Working Party on the publication of Lead Monitoring Guidance Notes; and he represents Greenwich on the Warren Spring Standing Conference of Co-operating Bodies. Apart from having been the joint organiser - with Thames Polytechnic - of a conference on soil contamination in 1981, Mr. Cooney regularly lectures to a variety of groups on pollution matters. He has been elected this year to sit on the Society's Technical Committee.

HYLTON DAWSON is the Company Safety Engineer, Rolls-Royce, where he leads a team covering all engineering and systems controls in safety activity. After an early introduction to acoustics, which has fascinated him ever since, he joined the aircraft industry in 1957 and having been involved in jet silencer research, came to Bristol to lead a research team in aero acoustics. He is co-patentee of convergent plate and notched silencers for supersonic jet engines and is a past member of the Noise Research Committee of the Aeronautical Research Council. In 1971 he was awarded the President's Gold Medal of the Society of Engineers for a paper on Aero Engine Noise, presented at a conference on Engineering and its Effect on the Environment. He has written and lectured extensively in Europe and the Americas, and is author of the NSCA publication 'Noise and Society'. He is Chairman of the Noise Committee, a member of the Technical Committee, and

represents the Society at the Congresses of the International Association Against Noise.

MAURICE DICKINSON, MIEH, MRSH, represents the North West Division, NSCA. He was Chief Environmental Health Officer for the Borough of Altrincham from 1957 to 1974, and the Metropolitan Borough of Trafford since Local Government Reorganisation. A Member of the Institution of Environmental Health Officers and a Member of the Royal Society of Health, he is keenly interested in all forms of pollution and is involved with the Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and at present serves on the Finance & Administration Committee. He is also a Member of the Manchester Area Council for Clean Air and Noise Control.

KENNETH B. DORMAN represents the Central Southern Division, NSCA, and is a member of the Conference & Promotions Committee. He qualified as a Public Health Inspector (now Environmental Health Officer) in 1965 and has been employed at West Bromwich, Gosport and Cambridge. He is currently the Borough Environmental Health Officer of Slough.

KENNETH S. DUNN, CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers' Association). He is Managing Director of the Incinerator Company Limited. In 1969 he joined INCINCO from Robey & Co. Ltd. of Lincoln, where he was an Engineering Director with a special responsibility for boiler development. He is a fuel technologist and has been a Member of EPEMA since its formation in 1972; he was elected Honorary Secretary of EPEMA in March 1973 and is also Deputy Chairman of the Finance & Administration Committee.

KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He is City Environmental Health Officer, Peterborough City Council, and has been the representative of Peterborough City Council to the NSCA for over 20 years, and a member of the East Midlands Division for 16 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference and Promotions Committee since 1974.

JOHN R.P. EVANS, ACP, MBIM, LRSC, represents the South and Mid Wales Division NSCA and is a member of the Noise and Technical Committees. As a Chemistry graduate, he has worked as an industrial chemist with I.C.I. Fibres and the British Steel Corporation. He taught for several years, and is currently

Deputy Manager/Warden of an Adult Education Centre. Mr. Evans was elected a Member of the Rhymney Valley D.C. in 1976 and is Chairman of the Environmental Health & Licensing Committee. President of the Ebbw Vale Constituency Labour Party, he is also a prospective parliamentary candidate for Hereford.

WILLIAM D. GARTSIDE represents the North West Division, NSCA. He is currently Principal EHO (Pollution and Noise Control) with Rochdale MBC. After apprenticeship and several years in the building industry he qualified as a Public Health Inspector in 1957, Meat and Other Foods Inspector in 1958 and Smoke Inspector in 1959, subsequently being appointed as specialist pollution control officer with the former C.B. of Rochdale. He is a founder member of the Manchester Area Council for Clean Air and Noise Control and member of the noise advisory working group to that Council. Mr. Gartside is a member of the Society's Technical Committee.

HARRY GIBLIN is a Past Chairman of the Council of the Society. He has spent all his working life in the solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 - a post from which he retired last year - and in this position helped Local Authorities in the implementation of their smoke control areas. Mr. Giblin has served on the Council since 1962. He was a long-standing member of the Parliamentary and Local Government Committee and now serves on the Finance & Administration Committee, of which he was Chairman, 1980/1981.

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last four years he has been a Member of the Scottish Division, NSCA, and for the last six years, specialist Smoke Control Officer, City of Edinburgh District Council.

DEREK GREENWOOD, MEHA, MIWM, Director of Health and Housing, Kirklees MBC, represents the Yorkshire and Humberside Division, NSCA, and is a member of the Finance & Administration Committee.

CLLR. JOHN R. GRIFFITHS represents the West Midlands Division, NSCA, and is a member of the Parliamentary & Local Government

Committee. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. For 20 years he was Senior Fire Control Operator for Hereford and Worcester Fire Brigade. He was first elected to Worcester City District Council in 1973 and re-elected in 1980. Cllr. Griffiths is Vice Chairman of the Environment Traffic Committee.

DAVID ANTHONY HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC.

J. OLIVER HETHERINGTON, BA, MIEH, MIOA, represents the Northern Ireland Division, NSCA. He has been employed by Belfast City Council since qualifying as a Public Health Inspector in 1969, being engaged first in general environmental health work and subsequently in pollution control duties. He is currently a Principal Environmental Health Officer, having responsibility for noise control and consumer safety. Mr. Hetherington is a member of the Northern Ireland Principal Environmental Health Officers' Pollution Control Group.

DEREK R. HORNER, CEng, represents the North West Division, NSCA, and is a member of the Parliamentary & Local Government Committee. Having gained an Hons. degree in Gas Engineering, he specialised in industrial gas applications before joining South East Gas as Commercial Sales Manager, and subsequently North West Gas. Mr. Horner is a Member of the Institute of Gas Engineering, a Member of the Institute of Energy, a Member of the Institute of Marketing and of the Chartered Institution of Building Services.

CLIFFORD GEORGE HOWELL represents the South West Division, NSCA, and serves on the Society's Conference and Promotions Committee. After appointments in London, Essex and Gloucestershire, he was appointed Divisional Environmental Health Officer in charge of Industrial/Commercial/Clean Air and Noise Division of the Stroud District Council's Environmental Health Department. He is a Fellow of the Royal Society of Health and a Fellow of the Institute of Environmental Health Officers being past Chairman of the South West Centre Council and also the Gloucestershire Branch. He has written and presented a number of papers on Environmental Health and is a founder member and past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee. He is a Member of the Berkeley and Oldbury Nuclear Power Station's

Local Liaison Committee, a Member of the Standing Conference of Co-operating Bodies on the investigation of air pollution and Chairman of the Environmental Control Committee for Gloucestershire.

CLLR. MRS. ELIZABETH JANE INGLEFIELD represents the East Midlands Division, NSCA, and is Deputy Chairman of the Parliamentary and Local Government Committee; she has been a member of the Divisional Council of the East Midlands for the past 9 years and is the Chairman of Housing for High Peak Borough Council. She is a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. Mrs. Inglefield has recently completed a 4 year course at Sheffield City Polytechnic and is currently working for the Marie Curie Memorial Foundation as the Regional Co-ordinator of Day and Night Nursing Services for Yorkshire.

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise, toxic waste disposal, etc. He is a Past Chairman of the Gwent Branch of the Institution of Environmental Health Officers and currently the appointed Hon. Secretary of the South & Mid Wales Division, NSCA.

GERALD W. KAY represents the Yorkshire & Humberside Division, NSCA. He entered local government with Keighley Borough Council in 1947, where he was Public Health Inspector from 1954 - 1957. Subsequent appointments were with Beverley Borough Council and Doncaster Rural District Council, where Mr. Kay was Deputy Chief Public Health Inspector from 1964 to 1974. In 1974 he joined Doncaster MBC and was appointed Chief Environmental Health Officer in April 1983.

R.W. (BOB) LANDER, FIEH, FRSH, MIWM, represents the Institution of Environmental Health Officers, and serves on the Society's Parliamentary & Local Government Committee. He is Chief Environmental Health Officer to Middlesbrough Borough Council. He currently serves on the Northern Divisional Council of the Society, and previously served on the East Midlands Divisional Council. He is a Fellow of the Royal Society of Health; a Fellow and Member of the General Council of the Institution of Environmental Health Officers; a Member of the Institute of Wastes Management and he is a North East Centre Council Member of this Institute; an EHO adviser to the Association of District Councils and represents this

body on the Health and Safety Executive/Local Authority Liaison (HELA) Committee and Local Authorities Co-ordinating Body on Trading Standards (LACOTS).

IAN R. LIVERSIDGE, FRSH, MIEH, represents the North West Division NSCA, and serves on the Conference & Promotions Committee. Employed by Bolton MBC, he is the Council's Chief Officer in charge of the Environmental Health Division of the newly formed Environmental Services Department. He is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough continues to progress a phased programme of domestic smoke control and £80,000 is annually allocated to this work. Atmospheric heavy metal burden assessments are being done under the auspices of an Inner Urban Project to evaluate the impact of this pollution and build the results into the Borough's future strategic planning. Mr. Liversidge operates an Industrial Liaison Committee, which combines the talents of local industry and the Council and this body evaluates and tries to ameliorate the problems of local industry as a polluter. Within the boundaries of the authority is one of the largest and most modern motive power battery manufacturers, which is the subject of a continuous monitoring programme, and which achieves high control standards with minimal impact on the surrounding environment.

CLLR. DENIS R. LOVELACE represents the South West Division, NSCA. He has been a Member of Bath City Council since May 1976 and was a candidate for the Somerset Euro-Constituency in the 1979 Euro-election. He is a past Assistant Secretary-General of the World Association of World Federalists and a sometime Local Groups Officer for the International Voluntary Service (UK). He is a member of the Society's Parliamentary & Local Government Committee.

IAN MACKAY represents the Solid Smokeless Fuels Federation. Having joined the National Coal Board in 1948, he served in various departments, particularly marketing, and became District Sales Manager for Teeside. In 1970, he joined Associated Heat Services Limited as Sales Manager and in 1982 was appointed General Manager designate for the Solid Smokeless Fuels Federation. He was Chairman of the North East Coal Industry Society in 1980. Mr. MacKay is an associate member of the Institute of Marketing.

IAN MacPHERSON, BSc, FRSH, represents the Scottish Division, NSCA. He is a graduate of the University of Strathclyde and has served in Local Government for some twenty years. He is Divisional Officer, Air Pollution Division, Environmental Health Department, City of Glasgow DC. He serves on the NSCA's Technical

Committee and is the President of the Scottish Division of the Society, having been a Member of the Society for twenty years. He was a Member of the Clean Air Council for Scotland and is a Member of the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution.

JOHN B. MARSH, FRSH, MIEH, represents the North West Division and is a member of the Parliamentary & Local Government Committee. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post-war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 24 years. He is a Member of the Royal Society of Health and a Member of the Institution of Environmental Health Officers and has also been an Examiner on the IEHO Education Board for the last 15 years. With a keen interest in all forms of pollution and its prevention, he is a long-standing Member of the NSCA, the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution and a Member of the Manchester Area Council for Clean Air and Noise Control.

DIGBY MORGAN-JONES represents the Industrial Gas Cleaning Association. He is a Fellow of the Institute of Chartered Accountants in England and Wales, and Partner in the firm of Wenham, Major & Clarke. He has been Chairman of IGCA since 1972.

MRS. E.M.L. (PAT) NAYLOR is Chairman of the London, South East and Central Southern Divisions. She has been associated with the Women's Solid Fuel Council for over 22 years and is the present Chairman of the London and Southern Region WSFC. Mrs. Naylor is a Member of the Royal Society of Health; Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council and Past President of the United Kingdom Federation of Business and Professional Women. She serves on the Society's Conference & Promotions Committee.

ROGER PANE, MInstM, represents the Low Temperature Coal Distillers' Association and is a Director of Coalite Group Limited. He has been an individual Member of the Society for many years and served as an elected representative of the East Midlands Division of the Council of the Society. He currently serves on the Parliamentary & Local Government Committee. He is a Member of the Executive Committee of the SSFF and a representative on the Warren Spring Standing Conference of Co-operating Bodies.

G.S. PARKINSON represents the Institute of Petroleum, where he is currently concerned with environmental and occupational health topics; having worked in the oil and chemical industries in posts involving management, technical service and production for over 40 years. Mr. Parkinson's connection with the NSCA, both through industry and personal interest, goes back over 15 years since he first became involved with clean air legislation in relation to the use of oil products. Mr. Parkinson is a Chemistry graduate, a Fellow of the Royal Institute of Chemistry and a member of the Institute of Environmental Sciences.

GEORGE T. PHILLIPS represents the Yorkshire & Humberside Division; he has been a member of the Division since 1973 and of the Divisional Council since 1975. Born and educated in Newcastle upon Tyne, Mr. Phillips qualified as a Public Health Inspector in 1961 and holds the R.S.H. Diploma in Atmospheric Pollution Control; in 1963 he joined Cambridge City Council, being promoted to Deputy Chief Public Health Inspector in 1969. He moved to York City Council in 1973 where he is currently Chief Environmental Health Officer. Mr. Phillips is a member of the Yorkshire and Humberside Pollution Advisory Council and Chairman of its Noise Sub-Committee.

CLLR. GEORGE T. RANDALL, ISM, represents the West Midlands Division, NSCA. He is Chairman of the West Midlands Division, and a Member of the Society's Conference and Promotions Committee. He has been a Member of Worcester City Council since 1966 and a Member of Hereford and Worcester County Council since 1974. He has lived in Worcester for the past thirty years and is a former employee of the Ministry of Defence.

ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. From 1978 to 1983 he was Honorary Secretary of London, South East and Central Southern Divisions, and he is Chairman of the Conference and Promotions Committee.

W. CHARLES B. ROBSON has been Honorary Secretary of the Northern Division since 1982 and a member of that Division since 1974. He is Borough Environmental Health Officer for Darlington BC, a post which he has held for some 10 years. From 1976-78 Mr. Robson was responsible for the direction, on behalf of the Noise Advisory Council, of the successful Darlington Quiet Town Experiment and in

this context has addressed meetings in the UK and abroad and presented papers to the IEHO Congress, Planning Groups and other bodies. In 1978 he formed the Durham Districts' Pollution Liaison Committee, of which he was Honorary Secretary up till 1982. Mr. Robson serves on the Parliamentary and Local Government Committee.

DR. NORMAN C. ROSS, BSc, PhD, CEng, FIGasE, represents the British Gas Corporation, and serves on the Society's Technical Committee. He graduated in chemistry from Aberdeen University where he also completed a PhD degree in 1960. He worked for six years in the rubber and plastics industry, mainly in the field of high temperature polymers. He joined the Watson House laboratories of British Gas in 1966 initially as a materials specialist and later became manager of the Coking & Combustion Division, with particular interest in constituents of combustion of gas. He is currently an Assistant Director of the Watson House Research Station.

DR. MIKE J.R. SCHWAR, PhD, MSc, BSc, DIC, MInstP, represents the London and South East Division, NSCA. He obtained his first degree in Physics and a PhD in Combustion Physics from London University following researches at Imperial College of Science and Technology, Department of Chemical Engineering and Chemical Technology. Dr. Schwar has worked for Thorn Electrical Industries, the University of Wisconsin and the Paint Research Association. In 1974 he joined the Greater London Council Scientific Branch as Building Physics Section Leader and since 1976 has been responsible for Air Pollution matters in the Environmental Science Divisions. He has presented various papers on air pollution and has addressed NSCA Conferences and Workshops. Dr. Schwar is a Member of the Technical Committee.

PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and South East Division, NSCA, and serves on the Society's Technical Committee. He was Chairman of the Council of the Society 1978/79. His books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5. He was appointed as Lecturer (Meteorology) Imperial College, 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical

Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmos. Env.). He was a member of the Clean Air Council from 1968 until its demise and Chairman of CACs Technical Committee from its inception. He was an Alderman, London B. of Merton (1971/78) and on the Metropolitan Water Board 1971/74. Professor Scorer was awarded the title Emeritus Professor in 1982 and is now a Senior Research Fellow in Mathematics and Environmental Technology at Imperial College.

RONALD F. SHAPTER, FIEH, represents the Central Southern Division; he was, before retirement, Chief Public Health Inspector of High Wycombe. He was a Local Government representative to the Society from 1956-1979, a Member of the Divisional Council from 1964, Honorary Secretary of the SE Divisional Council 1969/74 and Chairman of the London, SE and Central Division from 1977-1981. He has been a Member of the Council of the Society since 1969, formerly a Member of the Conference and Promotions Committee and now a Member of the Finance and Administration Committee.

FRANK E. SHEPHARD, BSc, PhD, FRIC, CChem, FRCS, CEng, FIGasE, represents the British Gas Corporation and the Institution of Gas Engineers. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. He is now an Assistant Manager responsible for the Environmental Studies Group within the Analytical Division of London Research Station. He also has a special responsibility for outdoor environmental matters within the R & D Division of British Gas. He is a member of the Institution of Gas Engineers Environmental Studies Committee, and also serves on the Society's Technical Committee.

BILL F. SNOW, MIEH, InstWM, represents the North West Division, NSCA. He commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC, Carlisle. He was appointed district Public Health Inspector to Accrington BC in 1962 and Deputy Chief Public Health Inspector to Warrington RDC in 1969. He has held his present post of Chief Environmental Health Officer to Warrington BC since 1974. Bill Snow has been a member of the North West Divisional Council since 1976 and was elected Chairman, for a 2 year term, in 1981. He has served on the Council and

Technical Committee of the Society since 1979, being Deputy Chairman of the latter.

CLLR. HARRY I. THOMAS represents the South and Mid Wales Division, NSCA, and is a member of the Conference & Promotions Committee. He was first elected as a Councillor in May 1967 and for the past 6 years has been Chairman of the Environmental Health Committee to the Lliw Valley Borough Council. Having represented his Authority on the South and Mid Wales Division, NSCA, he has been Chairman of the Division since 1983. Councillor Thomas is also his Council's representative on the West Glamorgan Joint Environmental Pollution Committee, and is Chairman of the Gower Local Consumer Advisory Committee of the Welsh Water Authority.

TREVOR TOWNSEND, MIEH., represents the West Midlands Division and is a member of the Parliamentary & Local Government Committee. He is currently Principal Environmental Health Officer (Environmental Pollution and Health and Safety) with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, mainly specialising in environmental pollution. He is the Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control and is currently a lecturer and examiner for both the Environmental Health Officers Examination Board and the Royal Society of Health's Diploma in Air Pollution Control.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected to the Newcastle-upon-Tyne City Council in May 1963 and is Chairman of the Health and Environment Committee and a member of the Licensing Sub-Committee. He was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977 and Vice Chairman again 1979-84. He currently serves on the Finance & Administration Committee.



THE PRESIDENT



NAOMI E.S. SARGANT



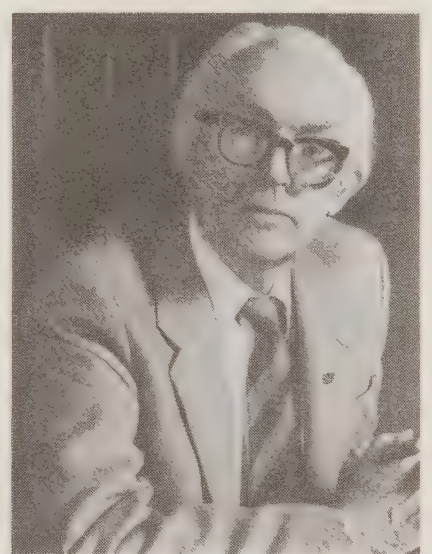
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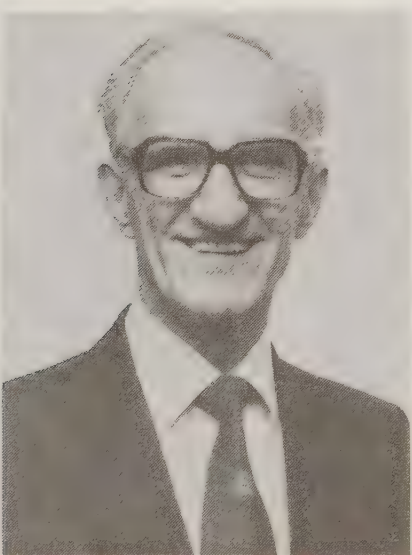
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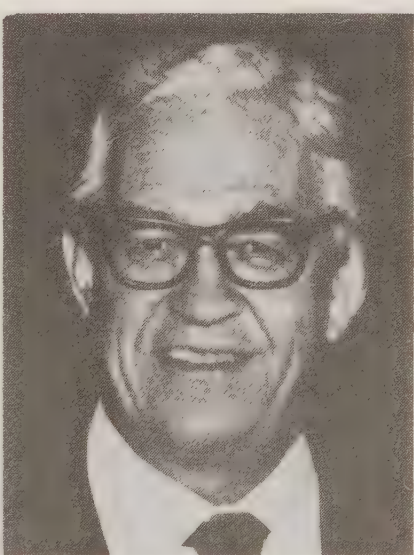
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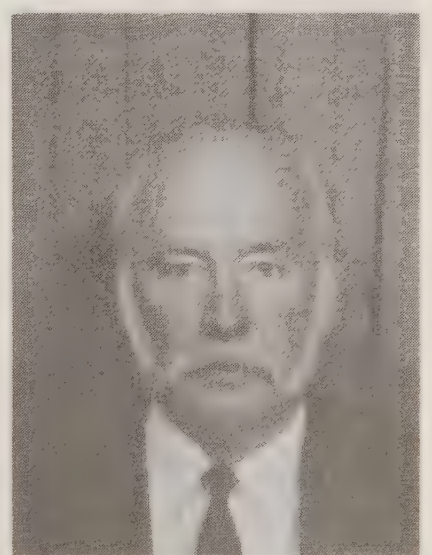
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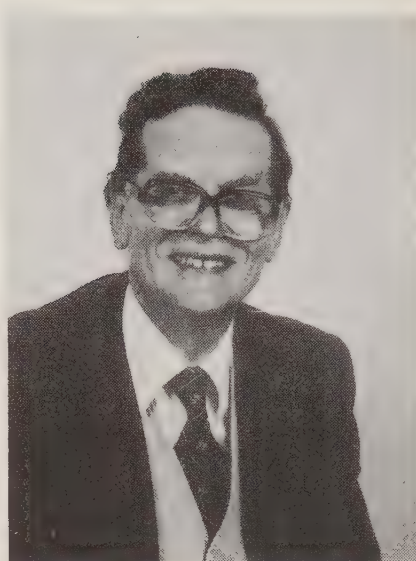
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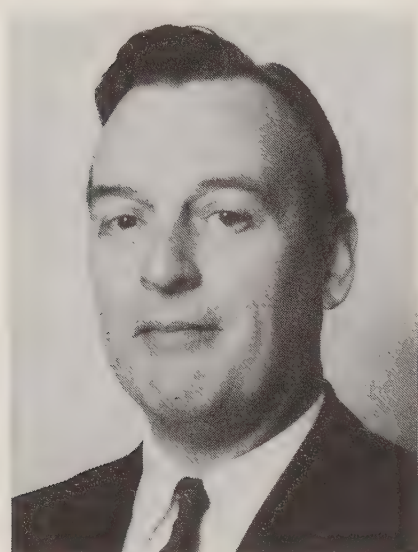
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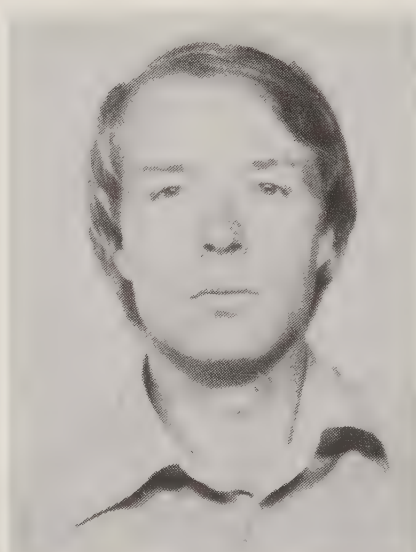
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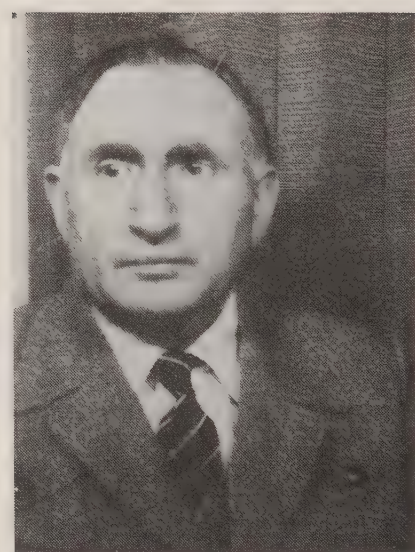
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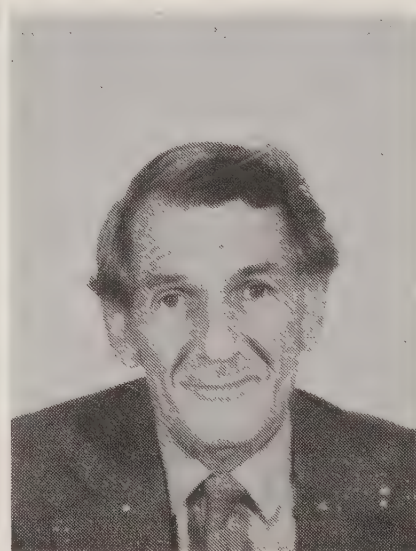
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J.J. BEAGLE



K. BRADBURY



R.S. CHAMBERLAIN



J. CLANCEY



A.J. CLARKE



P. COONEY



H. DAWSON



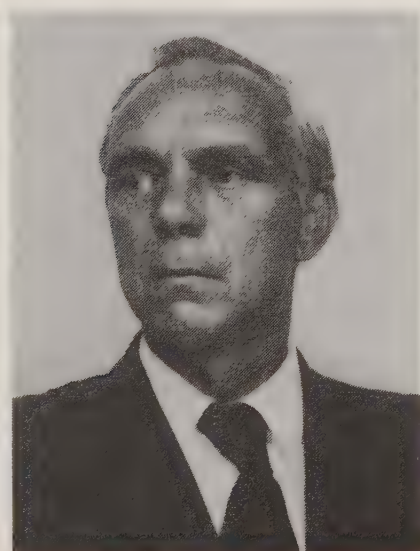
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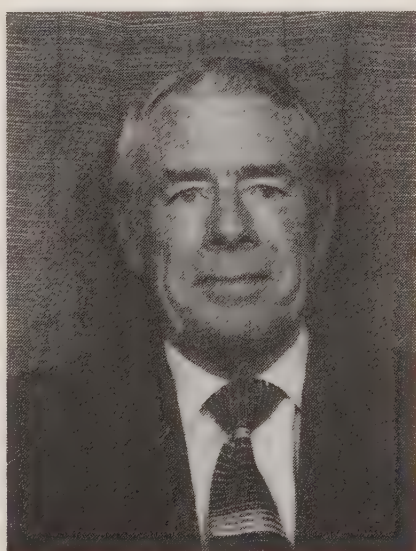
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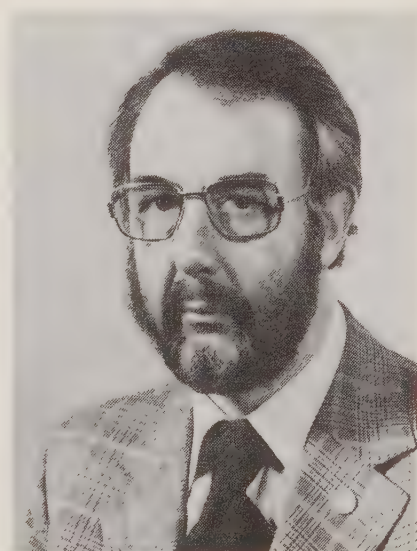
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H. GIBLIN



D.A. HARRISON



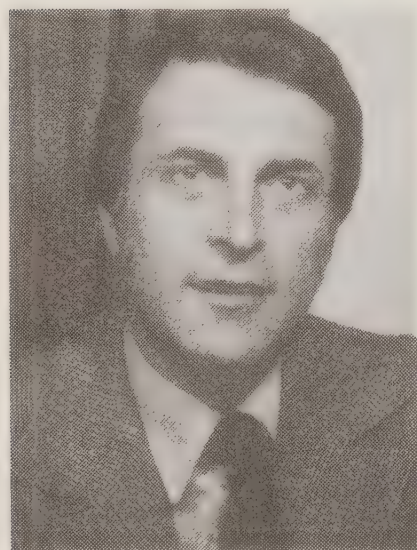
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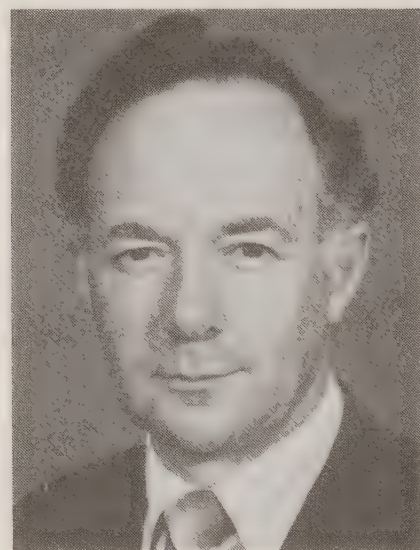
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T. JONES



R.W. LANDER



I. LIVERSIDGE



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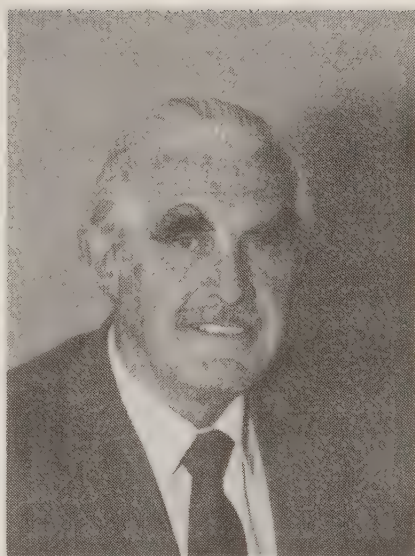
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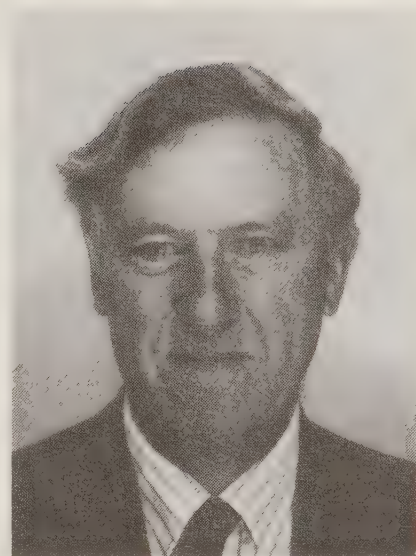
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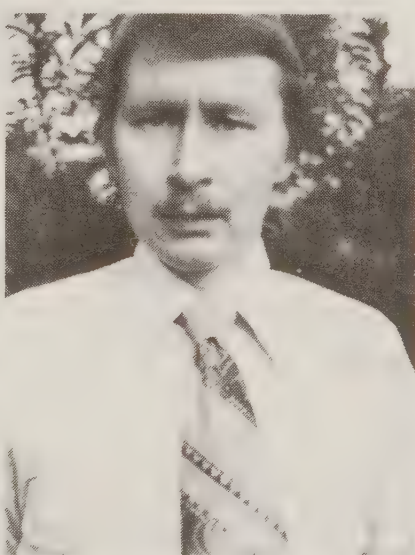
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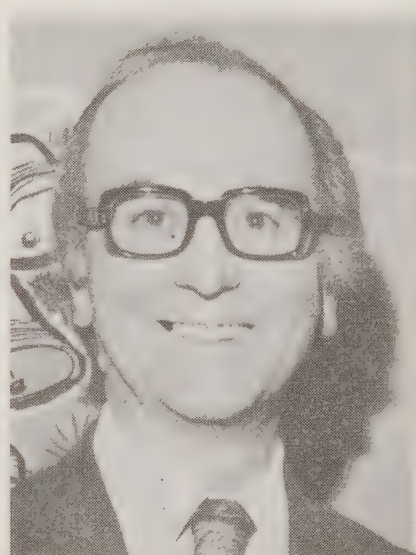
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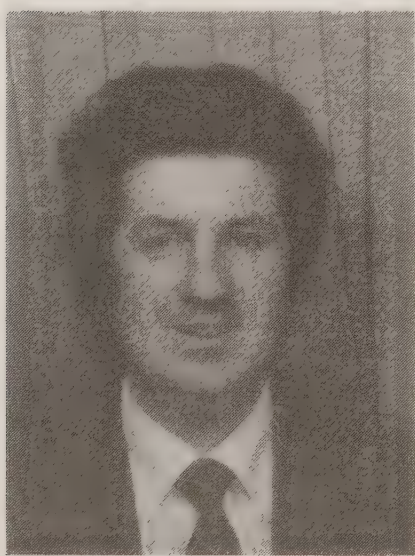
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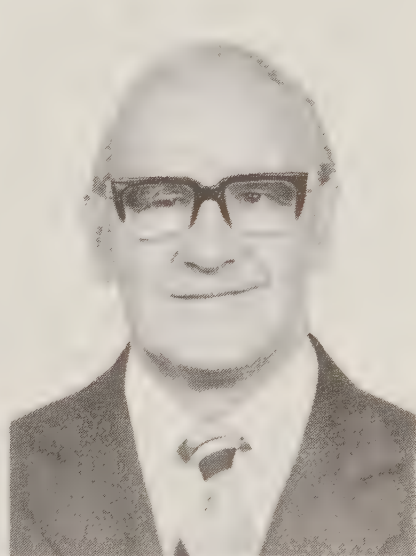
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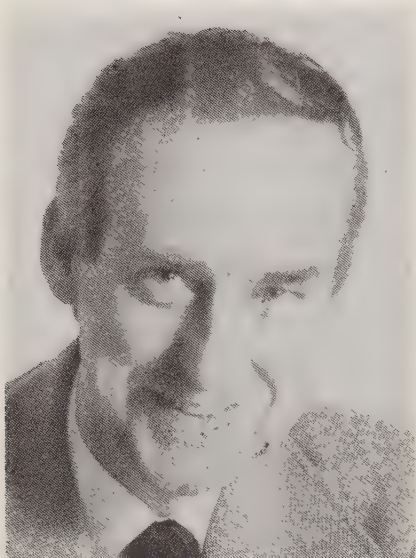
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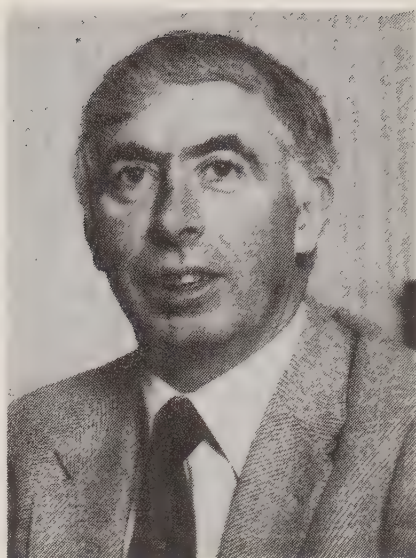
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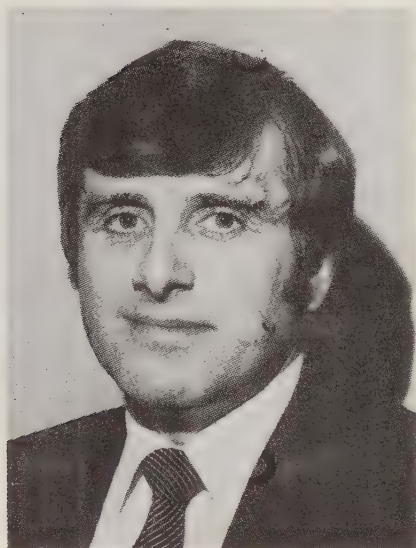
DR. F.E. SHEPHARD



W.F. SNOW



H.I. THOMAS



T. TOWNSEND



T.W. YELLOWLEY

ANNUAL REPORT AND ACCOUNTS

General Review

In opening our 50th Conference last year, I said that as satisfying as it was to be able to reflect on past achievements, our work was far from over and, among other things, continued success called for an energetic, younger membership to play an increasing part in the Society's affairs. I added that doubtless their seniors would continue to bring the full weight of experience to bear, but nevertheless, "without the (new) membership, we could not finish the job!" Since then I have had the pleasure of visiting many of our Divisions and have been greatly encouraged by meeting many of our new and younger members and sensing their enthusiasm. Their growing number bodes well.

Also, in visiting the Divisions I have been greatly impressed with the range and diversity of their activities and the support these generate. This is the root strength of the Society. The Standing Committees and the National Council have been equally busy with more, and more important, matters to consider. This year attendance has reached new highs, and the fact that so many people are prepared to give so much of their time, very often at considerable expense to themselves, is remarkable testimony to the vigour of the Society. Altogether it has turned out to be yet another full year — and we are the better for it!

Nationally and locally air pollution control retains its position at the forefront of politics, demanding and receiving priority coverage in the media. It is no coincidence that the Royal Commission on Environmental Pollution found it necessary to analyse the public perception of pollution issues, and recommend that a presumption in favour of unrestricted access to information for the public on the nature of the pollution concerned should become the guiding principle underlying all

controls. Their 10th Report is remarkable for the way it reflects the Society's policies — developed over the last few years and given in our evidence — on most aspects of air pollution from acid rain, through straw burning to air quality management. The Report shares our concern that the Government's overall co-ordination of policy on environmental pollution is wanting; that we lack a national energy policy with priority given to clean air and environmental protection; that rather than taking the initiative, we are letting the Commission in Brussels and our neighbours in Europe set the pace. This malaise is deep seated and the Government's preoccupation with other issues, important as they may be, must not be allowed to lower the priority given to the control of environmental pollution. If I am sometimes tempted to think that they are beginning to get the message, as yet the indicators show no consistency.

The Royal Commission regarded the transfer of responsibility for HM Industrial Air Pollution Inspectorate from DOE to the Health and Safety Executive as misconceived, although apparently regarding the matter as *fait accompli*. Like the Confederation of British Industry and the Institute of Environmental Health Officers we believe that there are cogent reasons why the Inspectorate should return to the Department of the Environment forthwith. To those reasons so comprehensively argued in the "5th Report" must be added our concern over reports that the qualifications and status of the inspectors are about to be down graded to conform with the general staffing requirements of the Health and Safety Executive.

It is interesting to speculate what effect the retention of the Clean Air Council and Noise Advisory Council would have had on the present situation, but it is clear that in getting rid of them the Government freed

itself of two unwelcome goads. While the Society has been able to take on some of their work — and will do even more as the new Noise Committee finds its feet — it inevitably lacks the resources of State which they had at their disposal. In this context, we greatly welcome the way in which the House of Lords Select Committee on the European Communities (Sub-Committee G) has taken on some of the investigative aspects of the work of the Clean Air Council. To its earlier study of the ‘Polluter Pays Principle’ it has now added another on ‘Air Pollution’ which examines the relevant Draft Council Directives that emanated from Brussels in 1983. To my knowledge this authoritative and independently minded forum is the only one to have looked at the EC proposals as a whole, and for this reason I believe that its conclusions will be accorded wide respect nationally and internationally. I am pleased to say that the Society was invited to give evidence to this Committee, as it did to other Committees of the House of Commons on detailed aspects of the same subject. Thus Parliamentary Committees are having an increasing impact of the formulation of clean air policy — including the Environment Committee of the European Parliament which, perhaps taking its lead from the European Commission, appears to have accepted the role of pace maker. Its recommendations for controls on acidic emissions are framed in much the same terms as those of the Society. Equally we welcome the lead it has given on the elimination of lead from petrol, and the support it has shown for the Commission’s proposals setting new lower noise levels for motor vehicles and motorbikes. It will be important to promote close ties with this Committee.

Smoke Control

Smoke control continues to make progress more particularly in the North Midlands and North West where the signs are that the rate is beginning to pick up following a

flattening in the curve in recent years. On the other hand, our concern over the illegal use of bituminous coal and other unauthorised fuels in smoke control areas remains. If the problem is confined to relatively small areas, it is widespread and manifests itself in different ways. Many householders remain unconvinced of the calorific advantage enjoyed by solid smokeless fuel compared with bituminous coal and are all too readily influenced by the price advantage enjoyed by coal over solid smokeless fuel. The result is that sales of bagged coal from corner shops are on the increase in many smoke control areas. Elsewhere, the problem is variously related to the concessionary coal allowances, the use of sea coal, and street trading. Wood burning remains a problem in some areas, though it appears to be diminishing as supplies become scarcer.

Society Policy

The Society’s policy on the regulation of straw and stubble burning — which calls for a legislative ban to take effect by 1988 and the enactment of primary legislation to permit burning in accordance with a code of practice — was received by last year’s Conference with overwhelming approval. On a motion from the floor it was resolved that it should be brought to the attention of the Government, the local authorities and their associations. I am delighted to say that no less than 65 local authorities, the AMA and CSLA have since given it direct or qualified support.

With regard to ‘Acid Rain’, we have kept close watch on development in all aspects of the controversy. While our statement — that the downward trend in UK emissions should be pursued as a positive policy and that the UK and other signatories of the UNECE Convention should meet a target reduction in emissions by a specified date — remains unchanged, we have since made it clear that controls are required for both mobile and static sources. Other issues resulting in policy

statements or requiring further action included: heavy metal emissions from iron foundry cupola furnaces; EC proposals on lead and gaseous emissions from cars; the regulation of direct fired warm air heaters; solid fuel advertising; misuse of concessionary fuel; and, not least, garden bonfires. In addition, we responded to the Government request for comments on the 10th Report of the Royal Commission on Environmental Pollution; and provided evidence (mentioned earlier) to three Committees of Parliament on measures for combatting air pollution from industrial plants; measures for limiting emissions from large combustion plant; measures to provide forests with increased protection against fire and acid rain; and proposals for setting air quality standards for nitrogen dioxide.

Liaison

Turning to our relationship with other organisations, the Society continues to enjoy extensive representation on the Standing Conference of Co-operating Bodies at which Mr. Ivor Barker, Chairman of our Parliamentary and Local Government Committee, has now taken over the chair from our Vice-President, Mr. Mick Archer. We continue to be represented on the Council for Environmental Conservation (CoEnCo) and its Committees, on the Parliamentary and Scientific Committee and on Committees of the Combined Heat and Power Association. We continue to provide secretarial services for the Environmental Protection Equipment Manufacturers Association (EPEMA).

IUAPPA

As you will know, the Society is a founder member of the International Union of Air Pollution Prevention Associations (IUAPPA) for which we also provide the Secretariat. The Belgian and Singapore associations having joined the Union during the past year, total membership now comprises 18 Members and 8 Observers representing 28 countries. In turn, the

Union has become a member of the International Union of Technical Associations (UITA) thus achieving close links with many United Nations organisations and other international bodies. The Union also keeps in touch with the Commission of the European Communities.

I am delighted to say that the Society will be hosting the Executive Committee when it meets in Brighton in conjunction with the Annual Conference. Matters on the Agenda will include: the next World Congress which, under the auspices of the Clean Air Society of Australia and New Zealand (CASANZ), foregathers in the Sydney Opera House on 25th August 1986; and the preliminary arrangements for the 8th World Congress which will convene at The Hague in 1989. Finally, I am delighted to say that Dr. Ken Sullivan, AM, who is President both of IUAPPA and CASANZ will be giving the Opening Address at Conference, and that members of the Executive Committee will be taking part in various sessions. I very much hope that as many members as possible will be able to meet and discuss matters of mutual interest with our international colleagues.

AICB

The Society also maintains associate membership of the Association Internationale Contra le Bruit (AICB). Mr. Hylton Dawson, who is the Chairman of the South West Division Council, represented the Society at the Annual Meeting of the Executive Committee of the Association which met at Sarajevo at the end of May in conjunction with its 13th International Conference. Invited to give the keynote address, Mr. Dawson's paper on "Noise Control Objectives for Today's Society" was given a tremendous reception.

Divisional Activities

With regard to our own affairs, I have already referred to the activities of the Divisions in promoting the work of the

Society. With few exceptions, attendance at meetings has been very good. In November the Northern Ireland Division met for the first time in a number of years on the initiative of its new Honorary Secretary, Mr. Oliver Hetherington, and it was a great pleasure for me to be able to attend their AGM in June. In April, I was greatly privileged to take the Chair at the South West Division Seminar on "Noise in the 80s and 90s" held at Bristol Polytechnic. The full report on this extremely successful Seminar and Exhibition has been published in *Clean Air*, but an attendance of over 80 speaks for itself. In January the West Midlands Division arranged a special meeting on the subject of heavy metal emissions from iron foundry cupola furnaces — when it was resolved to establish a working party to assess the impact of these emissions locally and examine the practicalities of tightening controls on them. A number of divisions have held special sessions on such topics as acid rain, straw burning and air pollution control in the factory environment. Others have continued their practice of combining meetings with visits. Inevitably there is insufficient space to mention the numerous other smaller meetings and visits arranged by the Divisions, but I would particularly like to thank all those who invited me to attend their Annual General Meetings — all of which I greatly enjoyed — and apologise for those which I was unable to attend because of conflicting engagements.

Spring Workshop

The Spring Workshop on the subject of "Regulating the Impact of Air Pollution" was held at Lincoln College, Oxford in March attracted a total attendance of 82. This Workshop, which was fully reported in *Clean Air*, produced an outstanding series of debates making it a resounding success. I am pleased to say that it was also a financial success. Our next Workshop, to be held at Warwick University in 1985 from 25 — 27 March inclusive, will take the discussion a stage further

under the general heading "Towards Air Quality Management".

The 50th Conference

Our 50th Clean Air Conference and exhibition, held in Torquay in November drew a total attendance of 301 delegates which showed a further welcome increase over recent years. While the facilities of the Conference Hall were disappointingly well below the standards we have come to expect, the acoustics being particularly bad, I am pleased to say that the acclaim given the presentations and discussions was appropriately compensating. We were delighted to welcome our new President, Professor David Williams, who, in his inaugural presidential address, discussed the role of legislation and the courts in responding to the needs of the citizen and securing environmental improvements. His closely argued and delightfully presented address occasioned prolonged applause. I should also say how pleased we were that our Immediate Past President, Naomi Sargent (Lady McIntosh), having invested Professor Williams with the Chain of Office at the AGM earlier, could also be present and join in the many informal discussions which followed.

Presidential and Vice-Presidential Matters

Since taking office our President has been active both in public and behind the scenes in promoting the affairs of the Society. Importantly he has drawn to the attention of the Secretary of State for the Environment and the Chairman of the Royal Commission on Environmental Pollution our concern that the integrity of the GLC Scientific Services Branch should be preserved following the proposed disbandment of the Greater London Council.

I would also like to thank the Vice-Presidents for their good offices on our behalf. Mr. Stanley Cohen, CBE, has been active in several ways behind the scenes, and Mr. Madron Seligman, MEP, BA, has maintained our essential first link with the

European Parliament. I am pleased to inform you that following an invitation from the Nominations Committee, both have agreed to stand for election to a further term in office. I am also pleased to remind you that, in order of appointment: The Rt. Hon. Michael Foot, MP; the Rt. Hon. The Earl of Cranbrook; Mr. A. (Mick) Archer, MBE; and Mr. Frank Haynes, MP; continue to be Vice-Presidents of the Society. The influence which our Vice-Presidents can and do bring to bear at the highest levels of Government is such that the Council is now commending to the AGM a special resolution to increase their number from six to nine — which I hope will receive unanimous approval.

The Council and its Committees

Turning now to activities within the Society, the Council and its Committees have also been busy, and I would like to take this opportunity of thanking all members of Council and all members of the Standing Committees for their essential support and attendance. I would also like to thank them for the willing way in which they day by day meet our requests for help.

The joint presentation by Imperial Chemical Industries (Agricultural Division, Billingham & Wilton), British Steel Corporation (Teesside Division) and Middlesbrough Borough Council of a silver chain and badge of office to be worn by the Chairman of Council on the occasion of my election to the appointment took me wholly by surprise. I have been deeply honoured to be the first Chairman to wear this most handsome and generous gift to the Society — which also commemorates the tremendous strides in air quality improvement achieved on Teesside over the last twenty years.

As you may imagine the Technical Committee has addressed a wide variety of issues, few of which are new and most of which are of long standing concern. I have already mentioned "acid rain" and

the (mainly) related EC Directives, and in parallel with the Parliamentary and Local Government Committee, Sessions of almost record length took place in preparing our evidence for Parliament. While much of the work of these committees is reported in Clean Air, many aspects fail to hit the headlines for lack of space. Partly to offset this, the Divisional Honorary Secretaries receive copies of all Agendas and Minutes thus enabling the debate to be conducted throughout the Society.

The Noise Committee will hold its inaugural meeting on 30th August — surely another milestone in the history of the Society! While this first meeting will necessarily be concerned with administrative and organisational matters, it will also decide on its initial programme of work. I forecast that this Committee too has busy times ahead.

The Conference and Promotions Committee has, in addition to the meetings already mentioned, organised the 51st Clean Air Conference at Brighton and completed outline planning for the Spring Workshop at Warwick University. New publications issued during 1984 include the book "Noise and Society" and a leaflet on noise entitled "Quiet Please". The leaflet on Garden Bonfires has been completely reviewed as have: the leaflet on the National Society for Clean Air, which outlines our activities and policies; and the leaflets "Prevent Air Pollution" and "Clean Air Begins at Home". A new leaflet giving advice to the citizen on air pollution controls and redress obtainable under the law is in the course of preparation. Last year a leaflet on straw and stubble burning was issued in conjunction with the Society's campaign on that subject, and this year an A3 poster showing the problems caused by straw and stubble burning was published. The February 1984 NSCA Newsheet (a random publication) was issued to highlight the 10th Report of the Royal Commission on

Environmental Pollution and its support for key elements of NSCA policy. *Clean Air* has continued to be published. The second edition of the NSCA Reference Book will be published in November 1984, together with a separate Glossary on the Environment.

Publicity and Public Relations

The Library and Information Service has handled thousands of requests for information, references and publications in the course of the year. The Society's leaflets have been widely distributed in response to such requests, and the book "Pollution", prepared by M.J. Gittins for the Society, has sold very successfully at 50p per copy. More detailed requests for information, or for help with particular problems, are answered with specific letters and/or research material from the Society's library. Telephone enquiries or requests for library loans from members are answered with on the spot advice or by return of post.

NSCA Members and staff have fulfilled national and local speaking engagements on air pollution, noise and related subjects. Press and media coverage of the Society's views and activities have been particularly good this year, especially in connection with the Society's campaign against pollution caused by straw burning. This and other topics have led to television appearances, local and national broadcasts, and good coverage in both the local and national press.

Finance

Finally, I must report that the Finance and Administration Committee has been fully occupied with the continuing problems of budget and finance. As you will see in the Note by the Honorary Treasurer circulated with this report, the deficit forecast by last year's budget turned into a small but nonetheless, extremely welcome surplus. However, the factors underlying last year's projected deficit remain, and if we are to

meet the natural wishes of our members to expand the scope and scale of our activities in the face of continuing inflation, I would invite you to study our Treasurer's words and act accordingly in the interest of the Society. I should also mention that the lease of our headquarters premises has yet to be renegotiated and in the meantime we are able to enjoy the benefit of a most modest rent. If you are visiting Brighton and can spare the time, please do not hesitate to call in.

Concluding Remarks

On behalf of members of the Society, I should like to thank the Secretary General and all the members of our headquarters staff for their energetic and loyal efforts on our behalf. It is always a great pleasure for me to watch this super efficient team at work which, seemingly producing "quarts from pint pots", at the same time meets standards second to none. I would also like to express my appreciation to the Honorary Secretaries of all the Divisions for their vital contributions in sustaining the work of the Society. Without their interest, hard work and the time they so willingly devote to their duties, the Society would not be able to function.

In conclusion, I would repeat that despite another year of concentrated activity, we are still nowhere near achieving our goals — to which end we must ensure that the Society remains vigorous and viable. As our President said in his inaugural address, "Its work has extended throughout this century and it will certainly extend into the next ...". In wishing my successor every success in progressing the work of this great Society, I would assure him that he will find it a rewarding and wholly enjoyable year.

L. Poole
Chairman of Council

BALANCE SHEET

31.3.84

Company Limited by Guarantee — Incorporated January 1, 1958

	Notes	1984 £	£	1983 £	£
TANGIBLE FIXED ASSETS					
Office furniture and equipment	3	1,910		1,910	
Additions at cost (1983/84 — £113)		12,638		12,525	
		<u>14,548</u>		<u>14,435</u>	
Less depreciation	2	<u>13,859</u>		<u>12,826</u>	
			689		1,609
Library books at nominal value			<u>100</u>		<u>100</u>
			789		1,709
CURRENT ASSETS					
Sundry debtors		2,425		2,676	
Prepayments		<u>167</u>		<u>535</u>	
		2,592		3,211	
Stock of publications	2	1,700		1,675	
Quoted investments	4	13,610		13,610	
Bank balances		57,228		53,503	
Cash in hand		36		16	
Funds held by divisions		<u>1,584</u>		<u>1,079</u>	
		<u>76,750</u>		<u>73,094</u>	
CREDITORS: amounts falling due within one year:					
Sundry creditors and accrued expenses		12,038		13,806	
Deferred income — contribution towards office decoration		-		335	
		<u>12,038</u>		<u>14,141</u>	
NET CURRENT ASSETS			<u>64,712</u>		<u>58,953</u>
TOTAL ASSETS LESS CURRENT LIABILITIES			<u>£65,501</u>		<u>£60,662</u>
GENERAL FUND					
Balance at start of year			47,084		44,117
Surplus for the year			<u>4,839</u>		<u>2,967</u>
Balance at end of year			51,923		47,084
PREMISES FUND					
			<u>13,578</u>		<u>13,578</u>
			<u>£65,501</u>		<u>£60,662</u>

The accounts were approved by the Council of the Society on 30 August 1984 and signed on its behalf by:

B.H. Edwick — *Honorary Treasurer*

Air Commodore J. Langston — *Secretary General*

INCOME AND EXPENDITURE ACCOUNT for the year ended 31 MARCH 1984

		1984		1983	
	Notes	£	£	£	£
INCOME					
Subscriptions and donations	2		49,501		44,748
Conference, Torquay October 1983			23,816		-
Conference, Llandudno October 1982			-		19,081
Workshop, Oxford March 1984			6,714		-
Workshop, Sheffield March 1983			-		5,462
Workshop, Newcastle April 1981			-		(40)
One day Teach In, Bristol 1981			-		(79)
Sales of publications			8,177		5,225
Advertising revenue					
Clean Air		987		822	
Members' Handbook		93		723	
			1,080		1,545
Investment income: Dividends		2,824		2,710	
Interest		5,574		5,660	
			8,398		8,370
Contributions from IUAPPA/EPEMA			6,724		7,300
			104,410		91,612
EXPENDITURE					
Staff costs:					
Salaries and wages		44,458		41,239	
Social security costs		4,650		4,195	
		49,108		45,434	
Other costs:					
Sub-contract printing		4,941		4,277	
Rent, rates, light and heat	5	3,410		3,358	
Insurance, travel, cleaning and general expenses		12,804		10,719	
Audit fee		600		500	
Depreciation – office furniture and equipment	2	1,033		1,468	
Stationery and supplies		1,308		1,019	
Provision for doubtful debts		(6)		-	
Irrecoverable VAT input tax	6	1,622		-	
		74,820		66,775	
“Clean Air” and Members' Handbook		4,636		6,889	
Information and Publicity Services		2,385		2,667	
Cost of publications		2,435		1,971	
Divisional expenses		644		1,296	
		10,100		12,823	
Conference, Torquay October 1983		11,034		-	
Conference, Llandudno October 1982		-		6,657	
Workshop, Oxford March 1984		3,617		-	
Workshop, Sheffield March 1983		-		2,367	
One day Teach In, Bristol 1981		-		23	
		14,651	99,571	9,047	88,645
SURPLUS FOR THE YEAR			<u>£4,839</u>		<u>£2,967</u>

The notes on page 50 form part of these accounts

STATEMENT OF SOURCE AND APPLICATION OF FUNDS for the year ended 31st MARCH 1984

	1984	1983
	£	£
SOURCE OF FUNDS		
Surplus for the year	4,839	2,967
Adjustment for item not involving the movement of funds:		
Depreciation	<u>1,033</u>	<u>1,467</u>
TOTAL FUNDS AVAILABLE	<u><u>£5,872</u></u>	<u><u>£4,434</u></u>
APPLICATION OF FUNDS		
Purchase of tangible fixed assets	113	197
Change in net current assets:		
Increase in stock of publications:	25	475
(Decrease) in debtors and prepayments	(619)	(719)
Increase in funds held by divisions	505	454
Decrease (increase) in creditors and accruals	1,768	(4,126)
Decrease (increase) in deferred income	335	(335)
Increase in bank and cash balances	<u>3,745</u>	<u>8,489</u>
TOTAL FUNDS APPLIED	<u><u>£5,872</u></u>	<u><u>£4,435</u></u>

**REPORT OF THE AUDITORS TO THE MEMBERS OF
THE NATIONAL SOCIETY FOR CLEAN AIR**

We have audited the financial statements set out on pages 47 to 50 in accordance with approved Auditing Standards.

In our opinion the financial statements, which have been prepared under the historical cost convention, give a true and fair view of the state of affairs of the Society at 31st March 1984 and of its surplus of income over expenditure for the year ended on that date, and comply with the Companies Act 1948 to 1981.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

City Gate House
39/45 Finsbury Square
LONDON EC2A 1AE

4 September 1984

NOTES TO THE ACCOUNTS

for the year ended

31st MARCH 1984

1. LIABILITY OF MEMBERS

In accordance with clause 8 of the Memorandum of Association every member of the Society undertakes to contribute, in the event of the Society being wound up, such amount as may be required not exceeding 25 pence each.

2. ACCOUNTING POLICIES

a) Basis of accounting

The accounts are prepared in accordance with the historical cost convention.

b) Subscriptions

Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate

c) Depreciation of tangible fixed assets

The cost of items of office furniture and equipment is written off by equal annual instalments over five years.

d) Stock of publications

Stock of publications are included at the lower of the Secretary General's valuation and net realisable value.

3. OFFICE FURNITURE AND EQUIPMENT

Records are not available which show the original cost of items of furniture and equipment which were valued by the Secretary General as at 1.4.1972 at £1,910 and were included in the accounts at this figure, which is now fully depreciated.

4. QUOTED INVESTMENTS

	Cost		Market value	
	1984	1983	1984	1983
	£	£	£	£
Fixed interest stocks	3,270	3,270	2,183	2,039
Ordinary shares	10,340	10,340	38,553	29,401
	<u>£13,610</u>	<u>£13,610</u>	<u>£40,736</u>	<u>£31,440</u>

5. PREMISES

The lease on the Society's Brighton offices expired on 14th November 1979. The Society has continued to occupy the premises at the same rent from that date.

6. IRRECOVERABLE VAT INPUT TAX

The Society has been advised that it can only recover part of the VAT input tax paid. The charge of £1,622 is the amount of irrecoverable VAT written off in 1983/84 and does not include any amounts for earlier years which may be claimed by H.M. Customs & Excise.

7. TAXATION

As a registered charity the Society is not liable to tax on its income.

DIVISIONAL MEMBERSHIP & REPORTS

DIVISION ONE

SCOTTISH DIVISION

President: I. MacPherson

Hon. Secretary and Treasurer: F.J. Feeley

No report received.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Glasgow, City of
National Coal Board
Scottish Gas

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Hamilton District Council
Inverclyde District Council
Monklands District Council
Motherwell District Council
Renfrew District Council

CORPORATE MEMBERS

British Steel Corporation
(Scottish Division)
Greater Glasgow Health Board
Lothian Health Board
Step-One Research Analysis

INDIVIDUAL MEMBERS

Anderson, R.P.
Blair, J.A.
Bulcraig, Dr. W.R.*
Cannayan, Mrs. M.
Christie, J.H.
Dunlop, W.A.
Foreman, J.*
Jackson, J.
MacPherson, I.
McGhie, J.R.*
Ramsey, Captain E.C.

DIVISION TWO

NORTHERN IRELAND DIVISION

Chairman: Cllr. Mrs. D. Dunlop

Hon. Secretary and Treasurer: O. Hetherington

After a lapse of a number of years, two meetings of the Division were held during the year.

The first meeting took place in the City Hall in Belfast on 22 November, 1983 and it is pleasing to note that over 70 delegates attended, representing both members and Officers of District Councils, Officers of Central Government and representatives from the various fuel interests.

The Secretary General addressed the meeting, speaking briefly about the history and the work of the Society in the cause of Clean Air. Following his address, an audio/visual presentation on Air Pollution in Northern Ireland was introduced by Miss June Knight of Stranmillis College of Education.

The AGM was held at Castlereagh Borough Council offices on 21 June, 1984 and at this meeting the Divisional Chairman, Mr. Campbell Brown, who has been chairman for approximately 20 years, informed the delegates that while he had enjoyed his time in office with the Division, he thought that this was an opportune moment to offer his resignation. Mr. Cecil Walkington, one of the longest serving council members, thanked Mr. Brown for his years of service and made a small presentation on behalf of the members.

There then followed the election of office-bearers and members of Divisional Council for the year, including that of Chairman, Councillor Mrs. D. Dunlop. Cllr. Dunlop is Deputy Chairman of the Environmental Health Committee, Belfast City Council, and is also a member of the N. Ireland Parliamentary Assembly, serving on its environment committee.

After the election of office-bearers the meeting was addressed by the Chairman of the NSCA's Council, Councillor L. Poole. The members of the Division are grateful to Cllr. Poole for his interest in the Division and for the efforts which he is making to provide a link between the Council and the Divisions.

O. Hetherington
Hon. Secretary

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Belfast, City of
Carickfergus District Council

Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council
Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtownabbey District Council

CORPORATE MEMBERS

Coal Advisory Service
 Eastern Health & Social Services
 Board

INDIVIDUAL MEMBERS

Burke, V.I.
 Hanna, B.P.
 McLaughlin, D.F.

DIVISION THREE

NORTHERN DIVISION

Chairman: Cllr. L. Poole
 Hon. Secretary: W.C.B. Robson

Two meetings were held in the Division during the year. Attendance on both occasions was high - 54 members being present at the meeting in Sunderland, 41 members at Middlesbrough, and 52 members for the AGM.

At the AGM, Cllr. Poole welcomed the new members of the Division: the representatives of Blyth Valley Borough Council and individual members, Messrs. R. Emerson and J. Rutherford. Congratulations were also extended to Cllr. J. Munsey on his election as Mayor of the Borough of Stockton, and to Cllr. J.A. Anderson on becoming Deputy Mayor of the Borough of Darlington. Messrs. R.V. Robinson and C.R. Cresswell, retiring local authority representatives, were warmly thanked for the work they had put in on behalf of the Division during their years of office.

The Secretary General gave a report to the meeting on the activities of the Council during the previous twelve months.

Finally, there was an audio/visual presentation by the Solid Smokeless Fuels Federation, introduced by Mr. I. MacKay, which was followed by discussion.

W.C.B. Robson
 Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
 Board (North Eastern Region)
 Industrial Air Pollution
 Inspectorate

National Coal Board
 Northern Gas

LOCAL AUTHORITY MEMBERS

Allerdale District Council
 Barrow-in-Furness Borough
 Council

Blyth Valley Borough Council
 Carlisle, City of
 Castle Morpeth Borough Council
 Chester-le-Street District
 Council
 Darlington Borough Council
 Durham, City of
 Easington District Council
 Gateshead Metropolitan Borough
 Council
 Hartlepool Borough Council
 Langbaurgh Borough Council
 Middlesbrough Borough Council
 Newcastle upon Tyne, City of
 North Tyneside Borough Council
 Sedgefield District Council
 South Tyneside Borough Council
 Stockton-on-Tees Borough Council
 Sunderland Borough Council
 Wansbeck District Council

CORPORATE MEMBERS

British Steel Corporation
 (Teesside Division)
 Coal Merchants Federation of
 Great Britain (Northern
 Region)

INDIVIDUAL MEMBERS

Calvert, Mrs. M.R.
 Candeland, D.E.
 Cayton, S.*
 Cresswell, C.R. (Hon. Member)
 Emerson, R.
 Eve, Mrs. M.E.
 Fisher, A.H.
 Issac, Prof. P.C.G.
 Mair, L.*
 Rutherford, I.J.
 Sugden, F.G.*
 Wilkinson, J.R.

DIVISION FOUR

NORTH WEST DIVISION

Chairman: F.W. Higson

Hon. Secretary and Treasurer: J.B. Douglas

The first meeting after the excellent AGM at Rochdale with the asbestos presentation was a second visit at the end of September 1982 to the Associated Octel Co. Ltd., at Ellesmere Port. This gave the opportunity for another 40 members who had been unable to attend the first visit to see the presentation on the use of lead in petrol by the management, and to visit the works and see the processes and controls exercised in making the leaded petrol additive.

The Annual Conference was held in the Division for the first time for many years; many members went to Llandudno, and benefitted from and contributed to the widely varied and interesting programme.

A Divisional Council Meeting was held in February to report on National activities. From this meeting a special delegation met representatives of the Solid Smokeless Fuels Federation, the Coal Merchants Federation and the National Coal Board Technical

Services in March. At this meeting a full discussion took place on the sale of coal in Smoke Control Areas, sales of coal from retail outlets, liaison between Local Authorities and fuel merchants and suppliers, and the expansion of coal burning in commercial and industrial plant. It was a very valuable meeting and the Division's Committee delegates were better able to discuss points at national level afterwards.

The major event of the year was the Asbestos Symposium held at the Woolston Leisure Centre, Warrington, and organisation of the speakers and publicity took priority over other possible events. The symposium was the best attended event for many years, with nearly 150 delegates and speakers present. Costs were kept to a reasonable level and the subject interested delegates with both environmental and health and safety responsibilities; these factors undoubtedly contributed to the success of the symposium.

J.B. Douglas
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
Board (North West Region)
Cheshire County Council
Industrial Air Pollution
Inspectorate
Liverpool, City of
National Coal Board
North West Gas
Shell Chemicals Ltd.

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bolton Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Metropolitan
County Council

Halton Borough Council
Hyndburn Borough Council
Knowsley Metropolitan Borough
Council
Macclesfield Borough Council
Manchester, City of
Oldham Metropolitan Borough
Council
Pendle Borough Council
Ribble Valley Borough Council
Rochdale Metropolitan Borough
Council
Rossendale Borough Council
Salford, City of
Sefton Metropolitan Borough
Council
St. Helens Borough Council
South Ribble Borough Council
Stockport Metropolitan Borough
Council
Tameside Metropolitan Borough
Council
Trafford Metropolitan Borough
Council
Warrington Borough Council

West Lancashire District Council Fallows, W.B.*
 Wigan Metropolitan Borough Franklin, N.J.
 Council Frazer, I.M.
 Wirral Metropolitan Borough Gee, Mrs. J.
 Council Gee, J.
 Hall, A.

CORPORATE MEMBERS

Coal Merchants Federation of Hendy, Dr. B.
 Great Britain (North West Horton, P.H.
 Region) Hollingdale, R.A.W.*
 Hughes, T.*
 Greater Manchester Council for Kennedy, M.A.
 Clean Air & Noise Control Lloyd, A.
 Metal Box Engineering Lowe, T.H.
 The University of Manchester Mather, Sir William*
 Institute of Science and Mayall, A.
 Technology - Pollution McGauley, H.J.
 Research Unit Mercer, I.G.
 The Woolton Society Parsonage, H.*
 Pollitt, W.E.*
 Rennie, D.M.
 Richards, J.E.
 Slingsby, Ms. N.J.
 Smith, D.
 Stanyard, R.J.
 Taylor, A.*
 Thomas, F.L.
 Vanstone, H.B.*
 Winder, F.*
 Yates, C.J.

INDIVIDUAL MEMBERS

Cain, J.
 Cass, H.V.*
 Christian, F.V.*
 Collins, D.H.
 Cook, Miss H.M.
 Evans, T.

DIVISION FIVE

YORKSHIRE AND HUMBERSIDE

Chairman: Cllr. R.J. McElvenney
 Hon. Secretary: D. Bird

The year began with the AGM at which Ivor Barker, Director of Environmental Health, Sheffield, presented a paper on the 'Pollution Challenge', which outlined the challenges facing the National Society for Clean Air.

Not to detract from other meetings held during the year, by far the most important meeting was that held jointly with the National Farmers Union in Rotherham in September. The subject was "Straw and Stubble Burning" and the liveliness of the debate can be adjudged by those present when one considers both Environmental

Enforcement Agencies, Fire Brigade, the Police and the farming lobby were together in the same chamber. We now know, of course that straw and stubble burning is to be more closely regulated and the Tenth Report of the Royal Commission has endorsed the Society's view of an ultimate ban on the practice to be brought in after a five year period. Locally however, the contact made with the National Farmers Union needs to continue and further meetings will be held during 1984 between representatives of the Divisional Council and the National Farmers Union. It is evident that the Division will continue to have a major role to play in influencing the future of this farming practice. Members should know that the Secretary General of the Society came up from Brighton to present the National Society's case at this very important meeting.

In February the Division visited the firm of Union Carbide (UK) Ltd, a graphite manufacturer situated in Sheffield. Union Carbide is one of only two manufacturers of industrial graphite in the country and those members who took the opportunity to visit this firm found the visit extremely useful. The final meeting held during the year prior to the Annual General Meeting was in April of 1984 at Wakefield. At this meeting I had the pleasure of presenting together with a colleague from Sheffield a paper on noise abatement zones. This paper updated members of the Division on current thinking on the use of noise abatement zones and on the attitudes of the Department of the Environment, which is reviewing their practice and implementation.

Every year the Society gains and loses members whose individual contribution to the Division must have special note, and a number of such personalities have left or are leaving the Division after many years of association. The first of these is Councillor Mrs. Golding from Sheffield, who, together with other colleagues, spearheaded the clean air drive of the 1950s and 1960s, and has been associated with the Division for many years. An officer from the adjoining authority to Sheffield has also made a significant contribution to the Division in his long service and association with pollution control. This officer is Ted Fuller who retired during this divisional year. Last but by no means least of the people I would wish to mention who are retiring from divisional life is Bernard Twyford.

As many members will know Bernard was Secretary of the Division for a great number of years and has always been associated with both divisional and national activity. This was recognised by his election to the post of National Chairman of the Society. I am sure that Bernard will maintain contact with the Division and the Society but his direct influence will be sadly missed.

D. Bird

Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board
Industrial Air Pollution Inspectorate
Leeds, City of
National Coal Board
North Eastern Gas
Sheffield, City of
South Yorkshire County Council
West Yorkshire County Council

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Calderdale Metropolitan Borough Council
Cleethorpes District Council
Doncaster Metropolitan Borough Council
Great Grimsby Borough Council
Harrogate Borough Council
Kingston upon Hull, City of
Kirklees Metropolitan Borough Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
Wakefield Metropolitan Borough Council
York, City of

CORPORATE MEMBERS

Atkins & Downie
British Steel Corporation
(Scunthorpe Division)
British Steel Corporation
(Sheffield Division)
Evans Universal Ltd.
Union Carbide Ltd.
Yorkshire & Humberside
Pollution Advisory Council

INDIVIDUAL MEMBERS

Clarke, Dr. A.G.
Gilbertson, J.
Gittins, M.J.
Green, G.H.
Hutton, Dr. K.
Inkersole, D.
Matthews, R.C.
Myers, P.
Perry, A.W.*
Reynolds, F.
Saword, A.C.*
Scott, J.A.
Sharif, S.F.A.
Store, N.J.
Tomlinson, E.S.
Twyford, W.B. (Hon. Member)
Williams, P.T.

DIVISION SIX

WEST MIDLANDS DIVISION

Chairman: Cllr. G. Randall

Hon. Secretary: L.F. Medlycott

The Division held its 33rd Annual General Meeting on Tuesday 31 January 1984 at the Management Centre, University of Aston in Birmingham.

In addition to AGM business, this meeting was important for the detailed discussion given during both morning and afternoon sessions to lead emissions from cold blast cupolas. Those present included the Director of the British Ironfounders Association and representatives of BCIRA, the District Industrial Air Pollution Inspector, and Dr. R. Pocock and Mr. S. Simmons of Aston University. Amongst NSCA members present was Mr. Byrom Lees, who had been invited by the Division to open the discussion on estimated levels of lead emission from ironfoundry cupolas.

Having considered the basis of calculations made by Mr. Byrom Lees and by BCIRA, respectively, the meeting decided that there was a real need to obtain more information about the situation, and that more measurements should be made of actual lead levels in air, dust, soil and vegetables in the area. Further, it was considered important to discover just how localised the environmental impacts of ironfoundry cupola emissions are, and to look at the practicalities of tightening controls on emissions.

The meeting resolved that a Working Party on Lead Emissions from Iron Foundry Cupola Furnaces should be set up, which has since met on several occasions.

Mrs. K. Sulway, who served as Hon. Secretary of the Division for four years, indicated that other commitments made it necessary for her to relinquish the office. Mr. L.F. Medlycott, Principal Environmental Health Officer (Pollution Control) with the District of the Wrekin was elected as Hon. Secretary in succession.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
Industrial Air Pollution
Inspectorate
National Coal Board
West Midlands Gas

LOCAL AUTHORITY MEMBERS

Coventry, City of
Dudley Metropolitan Borough
Council
Hereford, City of
Newcastle-under-Lyme Borough
Council
North Warwickshire Borough
Council
Nuneaton & Bedworth Borough
Council
Redditch Borough Council
Rugby Borough Council
Sandwell Metropolitan Borough
Council
South Staffordshire District
Council
Stoke-on-Trent, City of
Walsall Metropolitan Borough
Council

Warwick District Council
Wolverhampton Metropolitan
Borough Council
Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

Lodge-Cottrell Ltd.
The University of Aston in
Birmingham

INDIVIDUAL MEMBERS

Cockerham, Dr. R.G.
Hancock, Miss E.
Hulme, B.
James, E.N.
James, R.F.
Longley, J.C.*
Morris, O.R.
Newill, P.P.
Norton, R.
Pocock, Dr. R.L.
Simmons, S.A.
Stuffins, L.N.
Sulway, Mrs. K.J.
Taylor, C.B.*
Wraith, M.D.

DIVISIONS SEVEN AND EIGHT

EAST MIDLANDS DIVISION

EASTERN DIVISION

Chairman: J.E. Marsh
Hon. Secretary: E.F. Raven

I am pleased to be able to report that during the past year, the level of activity within the Division has been well maintained. We have followed the pattern of three meetings of the Divisional Council and three meetings of the Division as a whole. The Divisional Council met at Kelham in November 1983, at Matlock in February 1984 and at Eastwood Hall in May 1984.

The 1983 AGM was held in Glossop Town Hall, where the

High Peak Borough Council were our hosts, to mark the completion of Cllr. Mrs. Inglefield's year in office as Chairman of the Division. In addition to our business meeting, we heard something of the problems of air pollution in the locality and in the afternoon, visited a local factory.

In September, we were the guests of the West Derbyshire District Council and met in Matlock Bath. The numbers were rather less than average, since the meeting unfortunately fell in the week of the Environmental Health Congress. The business of the meeting centred on lead smelting and stone quarrying but it will also be remembered by those present for the widespread concern which was expressed about straw and stubble burning.

For our spring meeting this year, we visited the Bolsover District, assembling at the Van Dyke Hotel in Clowne in the morning and touring the Coalite Works in the afternoon. For the whole of that day, we were the guests of the Coalite Group and our thanks are due to the Company and to Mr. Roger Pane in particular, for receiving us so generously at very short notice.

This year, I have to report the death of Mr. A. Lister Robinson MBE, who, as Alderman Robinson of Peterborough, was our Chairman in 1973/74. We are indebted to Mr. Robinson for his services to the Division and to the Society, which have already been put into print in "Clean Air".

E.F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating
Board (Midlands Region)
Coalite Group Plc
East Midlands Gas
Industrial Air Pollution
Inspectorate
National Coal Board
Rexco Ltd.

Rolls Royce Ltd.
The Incinerator Company Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston Borough Council
Cambridge, City of

Charnwood Borough Council
 Chesterfield Borough Council
 Corby District Council
 Derby, City of
 Erewash Borough Council
 Fenland District Council
 Gedling Borough Council
 Harborough District Council
 High Peak Borough Council
 Hinckley & Bosworth Borough
 Council

Huntingdon District Council
 Leicester, City of
 Lincoln, City of
 Mansfield District Council
 Newark District Council
 North East Derbyshire District
 Council

North Kesteven District Council
 North West Leicestershire
 District Council

Nottingham, City of
 Peterborough, City of
 South Derbyshire District Council
 South Holland District Council
 South Kesteven District Council
 West Derbyshire District Council

CORPORATE MEMBERS

British Steel Corporation
 (Chemicals Division)
 British Steel Corporation
 (Tubes Division)
 Loughborough University of
 Technology
 Low Temperature Coal Distillers
 Association of Great Britain
 Ltd.
 Solid Smokeless Fuels Federation

INDIVIDUAL MEMBERS

Brown, A.H.
 Burns, G.*
 Clayton, H.M.
 Davis, D.
 Ffowcs Williams, Professor J.E.

Fleming, I.
 Hall, J.E.
 Haynes, F.
 Hunt, Dr. J.C.R.
 Inglefield, Mrs. E.J.
 Panchmatia, S.
 Richards, Dr. J.M.
 Riley, Dr. R.V.*
 Romaine, D.R.
 Stewart, Mrs. E.E.
 Turner, Miss H.E.
 Turner, T. Henry* (Hon. Member)
 Waring, F.L.
 Weldon, Miss G.M.*

MEMBERSHIP LIST

SUSTAINING MEMBER

Industrial Air Pollution
 Inspectorate

LOCAL AUTHORITY MEMBERS

Basildon District Council
 Brentwood District Council
 Castle Point District Council
 Colchester Borough Council
 Epping Forest District Council
 Harlow District Council
 Ipswich Borough Council
 Norwich, City of
 Thurrock Borough Council

CORPORATE MEMBER

Ford Motor Company Ltd.

INDIVIDUAL MEMBERS

Baxter, M
 Catlow, J.
 Dobson, P.F.
 Fisher, J.G.
 Goodfellow, J. (Hon. Member)
 Parsons, E.
 Stephenson, Dr. R.J.*
 Wade, J.T.
 Waldron, Mrs. M.M.
 Waldron, R.A.

DIVISIONS NINE AND TEN
LONDON AND SOUTH EAST DIVISION
CENTRAL SOUTHERN DIVISION

Chairman: Mrs. G.E. Naylor
Hon. Secretary: J.J. Beagle

The 29th Annual General Meeting of the Division took place on Wednesday 27th June 1984 at Hobart House, the headquarters of the National Coal Board in London. We were very pleased to welcome the Chairman of the National Council, Councillor L. Poole BEM JP, and the Secretary General, Air Commodore John Langston CBE.

Unfortunately owing to disruptions to the British Rail Services only a small number were able to attend but those that did heard an extremely interesting talk by Nigel Haigh, Head of the London Office of the Institute for European Environmental Policy (IEEP) on the effect of the European Community air pollution legislation.

There was also an audio visual presentation by Ian MacKay, General Manager of the Solid Smokeless Fuels Federation.

Mrs. G.E. Naylor was re-elected Chairman, Mr. A. Rees was re-elected Vice Chairman, and Mr. J.J. Beagle was re-elected Hon. Secretary. The three members of the Council of the Society from the South Eastern Division and the one member from the Central Southern Division were elected as follows: Dr. D.J. Ball (London and S.E.); Mr. P. Cooney (London and S.E.); Mr. H. Giblin (London and S.E.) was re-elected; and Mr. K. Dorman (Central Southern Division) was also re-elected.

The Divisional Council met in March, June and October in 1983, and in February and June 1984.

In July 1983 a very successful visit was made to the London Brick Company at Stewartby, Bedfordshire.

This Division has been very concerned lest the proposed abolition of the GLC will lead to the fragmentation of the GLC's Scientific Services Branch. In conjunction with Headquarters it intends to lobby interested parties for its retention as a separate entity.

J.J. Beagle
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas Corporation
 B.P. International Ltd.
 B.P. Oil Ltd.
 Central Electricity Generating Board
 Coal Merchants Federation of Great Britain
 Eastern Gas
 Environmental Protection Equipment Manufacturers Association
 Esso Petroleum Co. Ltd.
 Greater London Council
 Industrial Air Pollution Inspectorate
 National Coal Board
 North Thames Gas
 Shell International Petroleum Co. Ltd.
 Shell U.K. Oil Ltd.
 South Eastern Gas
 Texaco Ltd.

LOCAL AUTHORITY MEMBERS

Adur District Council
 Barnet, London Borough of
 Bexley, London Borough of
 Brent, London Borough of
 Brighton Borough Council
 Bromley, London Borough of
 Broxbourne Borough Council
 Camden, London Borough of
 Crawley Borough Council
 Dacorum District Council
 Dartford Borough Council
 Dover District Council
 Ealing, London Borough of
 Eastbourne Borough Council
 Elmbridge Borough Council
 Enfield, London Borough of
 Epsom & Ewell Borough Council
 Gravesham Borough Council
 Greenwich, London Borough

Guildford Borough Council
 Hackney, London Borough of
 Hammersmith & Fulham, London Borough of
 Harrow, London Borough of
 Havering, London Borough of
 Hounslow, London Borough of
 Islington, London Borough of
 Kensington & Chelsea, Royal Borough of
 Kingston upon Thames, Royal Borough of
 Lewes District Council
 Lewisham, London Borough of
 London, Corporation of
 Merton, London Borough of
 Richmind upon Thames, London Borough of
 Rochester upon Medway Borough Council
 Southwark, London Borough of
 Surrey Heath Borough Council
 Sutton, London Borough of
 Tower Hamlets, London Borough of
 Watford Borough Council
 Westminster, City of
 Woking Borough Council
 Worthing Borough Council

CORPORATE MEMBERS

Advance Central Services Ltd.
 Atkins, W.S. Group Ltd.
 Babcock Power Ltd.
 Blue Circle Industries Ltd.
 British Steel Corporation
 Brookway Engineers Ltd.
 Buckle, G.H., and Partners
 Caltex (U.K.) Ltd.
 Confederation of British Road Passenger Transport
 Guinness, A. Son & Co (Park Royal) Ltd.
 Industrial Gas Cleaning Association
 Institution of Environmental Health Officers, The

Institution of Gas Engineers, The	Gandy, Miss R.L.*
Institute of Petroleum	Garland, G.E.
Johnson Matthey Chemicals Ltd.	Garland, P.
McCrone Research Institute Ltd.	Giblin, H.*
Mobil Oil Company Ltd.	Gillett, I.
North East Surrey College of Technology	Goldsmith, A.
Preston Circus Association	Grant, P.M.
Royal Society of Health	Greenhead, S.*
South East London Technical College	Hunt, J.R.J.
St. Thomas's Hospital Medical School, Department of Community Medicine	Iddison, T.H.*
Tottenham College of Technology	James, B.W.
Women's Solid Fuel Council	Jones, T.H.
	Kayes, Dr. P.J.
	Kitchener, Earl*
	Lees, B.*
	Lewis, B.N.
	Lingard, Ms. H.
	McEvoy, Lady M.
	McKenna, K.H.
	Meades, G.
	Menuhin, Yehudi
	Mowle, C.R.
	Perkins, P.R.
	Perriman, R.J.
	Raggett, G.F.
	Rayson, H.
	Rice, A.P.
	Richardson, R.C.*
	Scannell, K.
	Scorer, Professor R.S.
	Shillito, D.E.
	Skea, Dr. J.
	Train, Dr. D.
	Tsang, P.
	Turner, D.W.
	Turner, Dr. W.C.*
	Vick, Mrs. J.L.
	Vine, Mr. & Mrs. G.M.*
	Walker, A.
	Wermann, J.C.
	Willcox, Mrs. M.C.T.R.
	Wilson, D.

INDIVIDUAL MEMBERS

Ades, T.R.
 Ball, Dr. D.J.
 Barnes, K.
 Beaumont, M.
 Bevington, C.F.P.
 Boddy, J.H.*
 Bond, Professor G.G.
 Bradbury, Ms. J.A.
 Bradshaw, N.F.
 Brown, H.
 Brown, T.J.
 Butler, J.W.*
 Carroll, Ms. V.
 Clancey, J.*
 Clark, A.
 Clarke, Mrs. B.
 Colville, Lt. Com. R.F.
 Courtier, G.B.*
 Craxford, Dr. S.R.*
 Day, M.R.
 Dibb, Ms. S.E.
 Douglas, M.
 Duckworth, P.D.
 East, R.G.
 Ellis, P.T.A.
 Elsworthy, Mrs. F.S.
 Forster, A.E.T.
 Frankland, R.*

MEMBERSHIP LIST

SUSTAINING MEMBER

Southern Gas

LOCAL AUTHORITY MEMBERS

Bracknell District Council
 Cherwell District Council
 Fareham Borough Council
 Gosport Borough Council
 Luton Borough Council
 Mid Bedfordshire District Council
 Oxford, City of
 Portsmouth, City of
 Slough Borough Council
 Southampton, City of
 South Bedfordshire District Council
 South Oxfordshire District Council
 Wokingham District Council
 Wycombe District Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
 Calor Gas Ltd.
 Cleerburn Ltd.
 Highbury College of Technology

INDIVIDUAL MEMBERS

Armstrong, F.W.
 Bairds, J.M.
 Bartlam, J.N.
 Billington, N.J.
 Bridgen, R.F.
 Fleming, B.
 Fuller, H.I.
 Lingard, Ms. H.
 Nevard, L.
 Parry, M.
 Phillips, H.
 Robson, A.
 Scotson, D.A.*
 Tagg, J.R.
 Verdin, A.

DIVISION ELEVEN

SOUTH WEST DIVISION

Chairman: H. Dawson

Hon. Secretary: H.R. Nowell

The first of five meetings held during the year was the AGM at the Coal Research Establishment, Cheltenham. Following business, 28 members were given a conducted tour of the Establishment where they viewed and discussed short, medium and long term research into coal products, combustion and coal conversion.

The venue for the October meeting was the premises of J.L. Thomas and Co. Ltd. Exeter, manufacturers of tallow and feeding meal. Following a short business session, Mr. S. Jones, the managing director, gave an introductory talk on the animal by-product industry with particular reference to the processes carried out on site, the associated odour problems and the use of management, design and above all modern treatment plant to overcome such problems. Members then embarked on a nasally stimulating tour of the premises which was followed by

a lively discussion over refreshments. The opportunity to experience and debate the difficulties inherent with the operation of an offensive trade was appreciated by all present.

The December meeting at Rolls Royce Ltd., Bristol was devoted to energy management on a large industrial complex and the control of airborne and waterborne effluents therefrom. The company's approach was aptly summarised in the discussion period, which followed a tour of the computerised boiler house and oil separation plant, as "modernise, computerise, compromise".

Society Chairman, Cllr. Len Poole BEM, JP., presided over the Spring seminar "Noise in the 80s and 90s". A unique blend of subject matter and speakers produced a quality meeting which stimulated interesting lively debate amongst the eighty present. A full report of proceedings appeared in Clean Air.

The elegant surroundings of the Pump Rooms, Bath, was the venue for a two subject meeting in June. Firstly Harry Giblin, for the Solid Smokeless Fuels Federation, gave an audio visual presentation on the history of clean air, the progress made towards improved efficiency and the future for solid fuel. Mr. J. Hopper, Industrial Air Pollution Inspector, then gave the audience of forty three a talk on the Inspectorate's development and how it responds to the legislative requirements of today. He concluded by considering how the Royal Commission on Environmental Pollution Fifth Report proposals would affect the future development of industrial air pollution control.

Major areas of activity during the year included the consideration of evidence to the Royal Commission, and comments on the proposed EEC Directive on the Combating of Air Pollution from Industrial Plant.

An unsuccessful appeal had been made to Sir Keith Joseph for the retention of the BSc. (Hons) course in Environmental Health at Bristol Polytechnic.

Torbay B.C., a recent Conference host, was the most notable of several new members, whilst the most welcome news on this front was the life membership for Eddie

Colehan, a Division stalwart, and its "elder statesman".

H.R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Avon County Council
Central Electricity Generating
Board (South West Region)
Industrial Air Pollution
Inspectorate
National Coal Board
South West Gas

LOCAL AUTHORITY MEMBERS

Bath, City of
Bristol, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Teignbridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Torbay Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Cornwall Noise Advisory
Committee
Cross Manufacturing Ltd.
Quality Environment Ltd.

INDIVIDUAL MEMBERS

Baxter, T.*
Briggs, E.
Colehan, J.E.
Dickerson, D.S.
Edwick, B.H.
Garrigar, O.L.
Hannabuss, G.*
Lane, Dr. J.J.
Lusty, V.
Manners, C.C.
Merrick, R.J.
Newnham, Mrs. E.
Parker, Dr. R.A.
Price, B.
Read, S.J.
Redston, R.V.*
Shapter, R.F.*(Hon. Member)
Travers, I.D.
Upon, B.C.
Watkins, E.R.*

DIVISION TWELVE

SOUTH AND MID WALES DIVISION

Chairman: H.I. Thomas
Hon. Secretary: T. Jones

The Annual General Meeting 1983 was held at the offices of Islwyn Borough Council at the invitation of the Mayor who invited members to lunch after the meeting.

Mr. A. Capper, HMI-API, presented a paper on measurements and assessment of grit and dust.

There was a General Meeting of the Division held on 24 October 1983 at the City Hall, Cardiff, attended by 33 persons. Prior to the main purpose of the meeting, the following items were discussed:-

Annual Conference 1983; NSF Plant at Abercwmboi; future conferences; and future meetings of the Division. After these matters the representatives from CLEAR - Des Wilson and Dr. Russell Jones presented papers on the case for removing lead from petrol; blood lead levels; lead in water, food and air.

The next General Meeting took place on 22 November 1983 at Swansea University which took the form of a one-day seminar. During the morning Dr. P.C. Elwood and Mr. J. Gallacher (Medical Research Council) presented papers to members on the issue of lead in the environment. The papers covered lead in petrol; studies of lead and IQ; traffic and lead levels; water and lead; and blood lead levels in Wales.

After lunch, Mr. E. Ramsden, Chief Environmental Health Officer, Swansea City Council, presented a paper on Smoke Control Areas in Wales. Reference was made to the history of smoke control and the need for more control areas in Wales. It was felt that there was a more urgent need for such areas now, since soft English coals were being imported into Wales and this could lead to greater air pollution.

Unfortunately, the meeting scheduled for Spring 1984, had to be cancelled due to problems of acquiring the necessary speakers.

The Divisional Council have met and discussed the future activities of the Division. It is proposed that meetings should be held to cover topics on asbestos, hazardous waste, nuclear energy, and acid rain.

T. Jones
Hon. Secretary

MEMBERSHIP LIST

National Coal Board
Wales Gas

SUSTAINING MEMBERS

Industrial Air Pollution
Inspector
Mid Glamorgan County Council

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council

Cardiff, City of
 Cynon Valley Borough Council
 Islwyn Borough Council
 Llanelli Borough Council
 Lliw Valley Borough Council
 Neath Borough Council
 Newport Borough Council
 Preseli District Council
 Rhondda Borough Council
 Rhymney Valley District Council
 Swansea, City of
 Taff-Ely Borough Council
 Torfaen Borough Council
 Vale of Glamorgan Borough
 Council
 West Glamorgan County Council

CORPORATE MEMBERS

British Steel Corporation
 (Welsh Division)
 South Glamorgan Institute of
 Higher Education
 Swansea Port Health Authority
 West Glamorgan Institute of
 Higher Education

INDIVIDUAL MEMBERS

Carson, R.
 Dearden, J.*
 Harrop-Griffiths, H.
 Jones, M.
 Palmer, K.C.
 Parry, J.R.
 Stuffins, L.N.
 Thayer, J.M.

SMOKE CONTROL AREAS

Programme and Progress

The following lists contain the names of the local authority areas as of April 1st 1974. Due to the financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. Two sets of figures are given for each authority: one for the position on 31st March 1983 and the other for the position on 31st March 1984. The British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.
GREATER LONDON	
SOUTH EAST	Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.
SOUTH WEST	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
WALES	Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.
SCOTLAND	
NORTHERN IRELAND	

KEY: c. = approx; h = houses; n/k = not yet known; susp. = (programme) suspended; t = total acreage of Borough/District quoted by L.A.; ur = under review; xld = cancelled; - = none; * = figures as published in 1983. Figures and names of authorities underlined indicate completed programmes.

NOTE: The total number of premises in some completed programmes has been revised by the local authorities concerned to take account of new development in the area.

1984
Premises
(In Op)

1984
Acreage
(In Op)

1983
Premises
(In Op)

1983
Acreage
(In Op)

Final
Acreage

Target
Date

NORTHERN

Allerdale DC (Cumbria)	No return received from LA				
Blyth Valley BC (Northumberland)	1992	17,649	2,012	7,014	7,014
Carlisle City (Cumbria)	xld	-	898	2,701	2,701
Castle Morpeth(B) (Northumberland)	1986	2,534	1,495	3,578	5,280
Darlington(B) (Co. Durham)	1987	6,892	4,874	23,479	24,359
Easington DC (Co. Durham)	-	n/k	1,408	5,685	5,685
Gateshead(MB) (Tyne & Wear)	1989	35,372	15,864	61,025	63,851
Hartlepool(B) (Cleveland)	1982	9,070	9,070	c.34,000	c.34,000
Langbaugh(B) (Cleveland)	1991	c.15,000	10,560	34,271	34,836
Middlesbrough(B) (Cleveland)	1979	12,226	12,226	53,808	54,110
Newcastle upon Tyne(M) (Tyne & Wear)	1978	34,500	34,500	128,980	128,980*
North Tyneside(MB) (Tyne & Wear)	1989	20,801	19,245	68,534	71,166
Sedgefield DC (Co.Durham)	n/k	n/k	c.1,210	c.5,909	c.5,909
South Tyneside(MB) (Tyne & Wear)	n/k	16,285	13,965	60,909	62,856
Stockton-on-Tees(B) (Cleveland)	No return received from LA				
Sunderland(MB) (Tyne&Wear)	No return received from LA				

NORTH WESTERN

Blackburn DC (Lancs)	1986/7	13,661	11,294	41,373	41,373
Bolton(MB) (Gtr.Manchester)	1993	34,527	19,401	77,159	80,520
Burnley(B) (Lancs)	1980	23,700	23,700	c.43,000	c.43,000*
Bury(MB) (Gtr.Manchester)	Susp.	24,506	18,020	51,306	51,306
Chorley(B) (Lancs)	n/k	c.16,000	361	1,750	1,956
Crewe & Nantwich(B)(Cheshire)	-	-	1,957	8,731	8,731
Ellesmere Port&Neston(B) Cheshire	No return received from LA				
Halton BC(Cheshire)	1980	17,121	17,121	39,933	39,933*
Hyndburn(B) (Lancs)	1980	16,611	16,611	37,976	37,976*
Knowsley(M) (Merseyside)	Susp.	n/k	6,359	51,295	51,295
Lancaster City (Lancs)	No return received from LA				
Liverpool(M) (Merseyside)	1987	27,819	21,421	133,396	146,753
Macclesfield(B) (Cheshire)	-	-	304	2,653	2,653
Manchester City(M)(Gtr.Manchester)	1985	28,723	28,058	205,538	208,902
Oldham(M) (Gtr.Manchester)	1990	34,871	17,709	79,886	82,135
Pendle DC (Lancs)	1983	15,000	14,760	35,861	36,738
Preston(B) (Lancs)	1986/7	c.9,500	8,017	44,812	45,494

	Target Date	Final Acreage	1983 Acreage (In Op)	1983 Premises (In Op)	1984 Acreage (In Op)	1984 Premises (In Op)
Ribble Valley(B) (Lancs)	n/k	n/k	432	359	432	359
Rochdale(M) (Gtr.Manchester)	1990	33,358	22,500	67,854	23,270	69,429
Rossendale(B) (Lancs)	1993	34,170	9,300	9,274	9,649	11,155
St. Helens(MB) (Merseyside)	1986/7	32,980	25,782	58,154	25,782	58,154
Salford City(M) (Gtr.Manchester)	1977	23,942	23,942	90,279	23,942	90,279*
Sefton(M)(Merseyside)	n/k	14,742	2,587	13,463	2,587	13,463
South Ribble(B) (Lancs)	2008	27,454	4,624	12,226	5,136	13,416
Stockport(MB) (Gtr.Manchester)	n/k	31,147	24,707	n/k	24,707	102,645
Timeside(MB) (Gtr.Manchester)	1984	25,500	n/k	n/k	25,500	88,383
Trafford(MB) (Gtr.Manchester)	1980	26,129	26,129	93,212	26,129	93,212
Vale Royal DC (Cheshire)	-	-	6,704	10,400	6,704	10,400
Warrington(B) (Cheshire)	1983	43,527	43,527	66,853	43,527	66,853*
West Lancashire DC(Lancs)	xld	n/k	7,170	14,239	7,170	14,239*
Wigan(MB) (Gtr.Manchester)	n/k	49,162	26,425	68,639	29,905	73,372
Wirral(M) (Merseyside)	1989	38,420	20,004	90,005	22,721	96,241

YORKSHIRE & HUMBERSIDE

Barnsley(MB) (S.Yorks)	1993	c. 30,000	14,358	30,501	14,358	30,501
Bradford City(M) (W.Yorks)	n/k	91,444	50,838	180,106	50,838	180,106*
Calderdale(MB)(W.Yorks)	1980	14,520	14,520	35,328	14,520	35,328
Craven DC (N.Yorks)	xld	19,529	4,079	5,817	4,079	5,817
Derwentside DC (Co. Durham)	n/k	66,944	834	3,978	834	3,978*
Doncaster (MB) (S.Yorks)	1997	142,600	21,586	51,340	24,519	54,435
Glanford(B) (Humberside)	-	139,346	15,264	504	15,264	510
Harrogate(BC) (N.Yorks)	1978	8,500	3,265	15,426	3,643	19,176
Kingston-upon-Hull City (Hu.side)	-	17,599	8,516	57,122	8,516	57,304
Kirklees(MB) (W.Yorks)	1986	n/k	34,851	106,627	35,921	112,147
Leeds City(M) (W.Yorks)	Susp.	138,441	75,605	223,463	75,605	223,463*
Rotherham(M) (S.Yorks)	1989	69,875	14,095	40,441	20,769	44,678
Ryedale(DC) (N.Yorks)	-	261	261	3,130	261	3,130*
Selby(DC) (N.Yorks)	1992	10,000	496	1,728	2,161	4,414
Scunthorpe(B) (Humberside)	1981	8,337	8,337	24,170	8,337	24,170
Sheffield City (M) (S.Yorks)	1982	58,048	58,048	215,905	58,048	222,338
Wakefield City (M) (W.Yorks)	n/k	n/k	26,521	31,259	26,521	31,259
York City (N.Yorks)	1988	7,400	4,574	21,945	4,574	21,945

1984
Premises
(In Op)

1984
Acreage
(In Op)

1983
Premises
(In Op)

1983
Acreage
(In Op)

Final
Acreage

Target
Date

WEST MIDLANDS

Birmingham City (W.Midlands)	1986	No return received	65,309	59,554	326,569	59,554	326,569
Coventry City(M)(W.Midlands)	1987	24,202		20,636	106,854	21,935	112,249
Dudley (MB) (W.Midlands)	n/k	n/k		2,325	8,785	2,325	8,785*
East Staffordshire DC (Staffs)	1984.	3,467		3,380	6,553	3,640	8,542
Lichfield DC (Staffs)	n/k	n/k		5,072	21,000	5,072	21,000
Newcastle under Lyme (Staffs)	n/k	c.1,310		512	1,590	512	1,595
North Shropshire DC (Salop)	1986	12,200		7,143	8,915	7,143	8,915*
North Warwickshire(B)(Warwicks)	1994	19,585		8,980	23,822	9,108	22,090
Nuneaton & Bedworth(B)(Warwicks)	1979	7,010		7,010	21,594	7,010	21,594*
Rugby(B) (Warwicks)	Susp.	21,150		6,536	34,446	6,536	34,446*
Sandwell(MB)(W.Midlands)	No return received		from LA				
Shrewsbury & Atcham(B) (Salop)	No return received		from LA				
Solihull(MB) (W.Midlands)	1993	5,000		92	500	435	1,004
Staffordshire Moorlands DC(Staffs)							
South Staffordshire DC(Staffs)	Susp.	15,814		5,187	3,066	5,187	3,066
Stoke on Trent City (Staffs)	-	7,648		4,089	12,845	4,089	12,845*
Tamworth(B) (Staffs)	n/k	26,266		15,299	56,708	16,862	60,287
Walsall(MB) (W.Midlands)	1983/4	6,757		6,712	36,002	6,757	36,002
Warwick DC (Warwicks)	1992	17,031		10,049	62,024	10,049	62,024
Wolverhampton(MB)(W.Midlands)	Susp.	19,311		9,159	18,151	9,159	18,151
Wrekin DC (Salop)	n/k	n/k		634	6,030	639	6,070
Wyre Forest DC (Hereford & Worcester)							

EAST MIDLANDS

Amber Valley DC(Derbs)	1990	19,300		3,971	8,519	3,971	8,519*
Ashfield DC (Notts)	1993	27,206		11,656	18,301	11,787	19,264
Bassetlaw DC (Notts)	1990	20,000		7,107	12,356	7,367	13,480
Blaby DC (Leics)	1988	10,598		6,575	15,106	7,396	16,306
Bolsover DC (Derbs)	2001	4,047		1,006	3,179	1,006	3,179
Broxtowe DC (Notts)	1986	14,426		10,899	33,418	11,581	34,354
Chesterfield(B) (Derbs)	1985	16,230		9,904	31,372	11,248	34,291
Corby DC (N'hants)	No return received		from LA				
Derby(B) (Derbs)	1985	19,282		17,037	76,358	17,920	81,621
Erewash(B) (Derbs)	2002	7,577		2,552	11,040	2,688	11,490
Gedling(B) (Notts)	1988	5,230		4,202	23,089	4,649	23,575

	Target Date	Final Acreage	1983 Acreage (In Op)	1983 Premises (In Op)	1984 Acreage (In Op)	1984 Premises (In Op)
High Peak DC (Derbys)	1986	4,117	2,797	11,428	3,099	12,842
Leicester City (Leics)	1975	18,144	18,144	91,918	18,144	91,918*
Lincoln City (Lincs)	1984	8,828	7,843	25,925	8,828	29,352
Mansfield DC (Notts)	1993	18,997	8,962	24,600	8,962	24,600
Newark DC (Notts)	1993	1,824	672	4,184	928	5,126
Northampton(B) (N'hants)	n/k	19,928	8,175	18,898	8,175	18,898*
North East Derbyshire(Derbys)	xld	68,433	20,510	27,108	20,510	27,108*
Nottingham City (Notts)	1993	18,364	11,283	44,471	12,183	48,301
Oadby & Wigston(B) (Leics)	Susp.	2,448	145	903	145	903*
Rushcliffe(B) (Notts)	1983	3,045	2,735	9,702	3,045	10,818
South Derbyshire DC(Derbys)	No return received from LA					
South Kesteven DC(Lincs)	n/k	n/k	2,922	11,206	3,030	11,859

EAST ANGLIA

Cambridge City (Cambs)	Susp.	-	1,446	2,703	1,446	2,703
King's Lynn & West Norfolk (B) (Norfolk)	-	-	841	3,441	841	3,441
Norwich City (Norfolk)	Susp.	9,655	1,535	3,090	1,535	3,090*
Peterborough City (Cambs)	-	82,424	5,399	19,785	5,602	20,528

SOUTH WEST

Bath City (Avon)	1992	7,091	230	2,173	507	5,360
Bristol City (Avon)	1987	26,516	20,039	116,808	20,915	122,908
Cheltenham DC (Gloucs)	Susp.	n/k	954	13,155	954	13,155*
Exeter City (Devon)	-	-	6,514	17,744	6,551	17,746
Gloucester City (Gloucs)	-	8,314	-	-	-	-*

Target Date	Final Acreage	1983		1984	
		Acreage (In Op)	Premises (In Op)	Acreage (In Op)	Premises (In Op)
SOUTH EAST					
Susp.	3,594	913	5,100	913	5,100
No return received from LA					
No return received from LA					
1980	3,811	3,811	27,811	3,811	27,811*
-	-	227	2,856	227	2,856
Susp.	14,613	1,265	17,436	1,265	17,436*
1990	12,904	5,276	14,209	5,399	15,508
n/k	77,202t	255	2,572	255	2,572
No return received from LA					
-	3,731	3,731	14,649	3,731	14,649*
1981/2	17,267	16,048	31,035	16,048	31,035
No return received from LA					
1979	11,023	11,023	40,912	11,023	40,912*
1985	4,532	4,122	20,338	4,297	22,098
Susp.	n/k	2,885	10,517	2,885	10,517*
1965	5,899	5,899	28,000	5,899	28,000*
No return received from LA					
1979	10,657	10,657	72,776	10,657	73,290
1981/2	7,862	7,862	n/k	7,862	n/k*
1986	c.5,350	3,694	14,660	3,818	16,680
xld	92,332	1,341	4,845	1,341	4,910
1991	8,785	3,570	16,440	3,971	17,732
Susp.	9,249	1,554	19,039	1,554	19,039
Susp.	9,106	5,959	23,340	5,959	23,340*
n/k	n/k	6,383	19,974	6,383	19,974
xld	-	1,341	c.3,684	1,341	c.3,684
No return received from LA					
No return received from LA					
Susp.	13,880t	11,752	30,897	11,752	30,897*
1982	6,257	6,257	37,906	6,257	38,116
Susp.	-	10,130	22,761	10,130	22,761
1979	5,275	5,275	27,792	5,275	27,824
xld	-	831	2,655	831	2,655
Susp.	79,987	3,818	21,000	3,818	21,500
Aylesbury Vale DC (Bucks)					
Basildon DC (Essex)					
Bedford DC (Beds)					
Bracknell DC (Berks)					
Brentwood DC (Essex)					
Brighton(B) (E.Sussex)					
Broxbourne(B) (Herts)					
Canterbury City (Kent)					
Crawley(B) (W.Sussex)					
Dacorum DC (Herts)					
Dartford BC (Kent)					
Epping Forest DC (Essex)					
Gillingham(B) (Kent)					
Gravesham(B) (Kent)					
Guildford(B) (Surrey)					
Harlow DC (Essex)					
Hertsmere DC (Herts)					
Luton(B) (Beds)					
Milton Keynes(B) (Bucks)					
North Bedfordshire(B) (Beds)					
North Hertfordshire DC (Herts)					
Oxford City (Oxfordshire)					
Portsmouth City (Hants)					
Reading(B) (Berks)					
Rochester upon Medway (Kent)					
Sevenoaks DC (Kent)					
Slough(B) (Berks)					
Southampton City (Hants)					
Spelthorne(B) (Surrey)					
Stevenage(B) (Herts)					
Thurrock(B) (Essex)					
Watford(B) (Herts)					
Windsor&Maidenhead Royal B (Berks)					
Wycombe DC (Bucks)					

	Target Date	Final Acreage	1983 Acreage (In Op)	1983 Premises (In Op)	1984 Acreage (In Op)	1984 Premises (In Op)
LONDON BOROUGH						
Corporation of London	1955	678	678	n/k	678	n/k
Barking	No return received from LA					
Barnet	Susp.	22,123	16,429	133,542	16,429	133,542*
Bexley	1976	15,847	15,847	101,443	15,847	102,483
Brent	1975	10,934	10,934	95,624	10,934	95,624*
Bromley	1979	29,600	29,600	124,457	29,600	c.137,000
Camden	1968	5,369	5,369	88,214	5,369	88,214
Croydon	No return received from LA					
Ealing	1972	13,711	13,711	112,876	13,711	112,876*
Enfield	1977	20,061	20,061	95,756	20,061	95,756*
Greenwich	1972	11,724	11,724	75,673	11,724	75,673*
Hackney	1967	4,814	4,814	n/k	4,814	n/k *
Hammersmith & Fulham	1967	3,988	3,988	73,300	3,988	73,300*
Haringey	1968	7,490	7,490	94,281	7,490	94,281*
Harrow	1975	12,553	12,553	72,892	12,553	72,892*
Havering	1979	29,650	29,650	100,700	29,650	100,700*
Hillingdon	1981	27,258	27,258	102,314	27,258	103,275
Hounslow	1972	14,460	14,460	92,829	14,460	92,829
Islington	1969	3,679	3,679	c.82,000	3,679	c.82,000*
Kensington & Chelsea (Royal)	1972	2,950	2,950	25,288	2,950	25,288*
Kingston upon Thames (Royal)	1980	9,135	9,135	55,738	9,135	55,738*
Lambeth	1978	6,738	6,738	51,467	6,738	51,467
Lewisham	No return received from LA					
Merton	1977	9,380	9,380	65,905	9,380	65,905*
Newham	1981/2	8,985	8,985	87,211	8,985	87,211*
Redbridge	1971	13,963	13,963	c.93,000	13,963	c.93,000*
Richmond upon Thames	1972	13,454	13,454	68,651	13,454	68,651*
Southwark	n/k	6,981	5,794	n/k	5,794	n/k
Sutton	1977	10,732	10,732	78,954	10,732	82,738
Tower Hamlets	1968	4,875	4,875	73,460	4,875	73,460*
Waltham Forest	1977	9,805	9,805	n/k	9,805	n/k
Wandsworth	1979	8,860	8,860	108,693	8,860	108,693*
Westminster City	1970	5,334	5,334	13,021	5,334	13,021*

	Target Date	1983 Final Acreage	1983 Acreage (In Op)	1983 Premises (In Op)	1984 Acreage (In Op)	1984 Premises (In Op)
NORTHERN IRELAND						
Antrim (Co. Antrim)	1976	740	740	6,987	740	7,018
Ards (B) (Co. Down)	xld	-	105	823	105	823*
Armagh DC (Co. Armagh)	No return received from LA					
Ballymena(B) (Co. Antrim)	1981/2	325	325	890	325	890*
Belfast City (Co. Antrim & Co. Down)	1989	26,218	4,511	35,819	5,138	38,570
Castlereagh DC (Co. Down)	-	6,338	5,428	17,756	5,428	17,756
Craigavon(B) (Co. Armagh)	No return received from LA					
Down (Co. Down)	n/k	n/k	482	956	482	963
Larne(B) (Co. Antrim)	ur	ur	5	192	5	192*
Londonderry City (Londonderry)	No return received from LA					
Newtownabbey (Co. Antrim)	No return received from LA					
North Down (B) (Co. Down)	No return received from LA					
Strabane (Co. Tyrone)	1974	54	54	750	54	750*

SCOTLAND

Bearsden & Milngavie(Strathclyde)	-	-	8,800	15,560	8,800	15,700
Clackmannan (Central)	No return received from LA					
Clydebank (Strathclyde)	1979	9,239	9,239	19,981	9,239	20,319
Cunninghame DC (Irvine)	1986	816	217	859	350	1,383
Dumbarton (Strathclyde)	1995	11,787	4,301	11,126	4,301	11,126
Dundee City (Tayside)	1981	12,654	12,654	69,778	12,654	69,778*
Dunfermline (Fife)	-	-	931	5,309	931	5,309*
Edinburgh City (Lothian)	No return received from LA					
Ettrick & Lauderdale (Galashiels area only)	-	1,766	1,766	6,630	1,766	6,630
Falkirk (Central)	n/k	n/k	13,060	32,500	13,232	33,411
Glasgow City (Strathclyde)	1987	49,753	38,630	264,483	39,275	269,246
Hamilton (Strathclyde)	n/k	42,883	4,167	15,737	4,167	15,737*
Inverclyde (Strathclyde)	-	-	1,789	8,869	1,789	8,969*
Kilmarnock & Loudoun(Strathclyde)	Susp.	-	101	577h	101	577h*
Kirkcaldy (Fife)	n/k	n/k	5,839	7,083	5,839	7,083*
Kyle & Carrick	1974	98	98	275	98	275*
Monklands (Strathclyde)	-	40,500	5,116	19,995	5,116	19,995
Motherwell (Strathclyde)	n/k	n/k	878	5,255	878	5,255

	Target Date	Final Acreage	1983 Acreage (In Op)	1983 Premises (In Op)	1984 Acreage (In Op)	1984 Premises (In Op)
Nithsdale (Dumfries & Galloway)	No return received from LA					
Renfrew (Strathclyde)	No return received from LA					
Roxburgh (Borders)	No return received from LA					
Stirling (Central)	-	-	378	2,050	378	2,050
Strathkelvin (Strathclyde)	n/k	-	5,156	-	5,156	-
West Lothian (Lothian)	-	103,401	6,521	13,210	6,521	14,105

WALES

Alyn & Deeside (W) (Clwyd)	-	-	50	448	50	448*
Delyn (B) (Clwyd)	1983/4	486	486	628	486	628
Newport (B) (W) (Gwent)	n/k	n/k	67	1,178	67	1,178*
Wrexham Maelor (B) (W) (Clwyd)	Susp.	2,916	2,166	10,390	2,166	10,390

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Clean Air Branch, State Pollution Control Commission of N.S.W.,
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(CERCHAR), Boite Postale No. 27
60103 CREIL.

Comite de Coordination pour la
Prevention de la Pollution
Atmospherique (which comprises
the following), 58 rue du Rocher,
75008 Paris. President: M. le
Professeur Valade.

1. Association pour la
Prevention de la Pollution Atmos-
pherique (APPA), 58 rue du
Rocher, 75008 Paris.

2. Centre Interprofessional
Technique d'Etudes de la
Pollution Atmospherique (CITEPA),
28 rue de la Source 75016 Paris.

3. Comite National d'Action
pour l'Assainissement de l'Atmos-

phere (CAPA), 54 avenue Marceau
75008 Paris.

Centre National de la Recherche
Scientifique (CNRS), 15 quai
Anatole France, 75007 Paris.

Delegation Generale a la
Recherche Scientifique et Tech-
nique, 103 rue de l'Universite,
75006 Paris.

Institut Francais de l'Energie,
3 rue Henri Heine, 75016 Paris.

Electricite de France, Direction
de la Production Thermique, 2 rue
Louis Murat, 75008 Paris.

Institut Francais du Petrole
(IFP) 1 et 4 avenue Bois Preau,
92502 Rueil Malmaison.

Institut National de Recherche
Chimique Appliquees, 12 Quai
Henri IV, 75004 Paris.

Laboratoire Central de la
Prefecture de Police, 39 bis rue
de Dantzig 75015 Paris.
Prof. Viellard.

Laboratoire d'Hygiene de la
Ville de Paris, 1 bis rue des
Hospitalieres St. Gervais, 75004
Paris. Prof. Festy.

Laboratoire "Prevention de la
Pollution Atmospherique"
d'Electricite de France, 1 quai
de Saint Ouen 93 - Saint Denis.

Institut Francais des Petroles,
4 avenue de Bois-Preau, 92592
Rueil Malmaison.

Centre d'Information et de
Recherches sur les Nuisances du
Groupe ELF-ERAP-SNPA,
Les Miroirs, Cedex 27,

92096 Paris la Defense.
M. Bapseres.

GERMAN DEMOCRATIC REPUBLIC

Abgasprüfstelle der DDR, Rudower
Chaussee 6, 1199 Berlin-Adlershof.

Hygiene-Institut der Humboldt-
Universität, Otto-Grotewohl-Str.
1, 108 Berlin, DDR.

Institut für Grubensicherheit und
Arbeitsschutz, Kirchgasse 11,
Freiberg/Sa., DDR.

GERMANY, FEDERAL REPUBLIC OF

Asbest-Institut für Arbeits-
und Umweltschutz e.V.
Görlitzerstr. 1, 4040 Neuss.

Institut für Umweltschutz und
Agrikulturchemie Berge u.
Partner GmbH, Am Vogelsang 14,
5628 Heiligenhaus
Bez. Düsseldorf.

Bayerisches Landesamt für Umwelt-
schutz, Rosenkavalierplatz 3,
8000 München 81.

Biolog. Bundesanstalt für Land-
und Forstwirtschaft, Institut für
nichtparasitäre, Pflanzenkrank-
heiten, Königin-Luise-Str. 19,
1000 Berlin 33.

Bundestalt für Materialprüfung
(BAM), Unter den Eichen 87,
1000 Berlin 45.

Bundesgesundheitsamt, Institut
für Wasser-, Boden-und Luft-
hygiene, Corrensplatz 1, 1000
Berlin 33.

Bundesministerium des Innern,
Rheindorfer Str. 198, 5300 Bonn.

Bundesverband der Deutschen Industrie, Abt. Umweltfragen, Oberländer Ufer 84-88, 5 Köln 51

Deutsche Gesellschaft für Mineral-Ölwissenschaft und Kohlechemie e.V., 2 Hamburg 1, Steindamn 71

Deutsches Krebsforschungszentrum Heidelberg, Institut für Toxikologie und Chemotherapie der Universität Heidelberg, 6900, Heidelberg 1, Im Neuenheimer Feld 280.

Deutscher Städtetag, Lindenallee 11, 5000 Köln-Marienburg.

Deutscher Verein von Gas- und Wasserfachmännern, 6000 Frankfurt Main 97, Theodor-Huess-Allee 90-98.

Fachvereinigung Metallhütten- und Umschmelzwerke e.V. Tersteegenstr. 28, 4000 Dusseldorf.

Hygiene Institut Zentrum für Ökologie am Klinikum der Justus Liebig-Universität, Friedrichstr. 16 6300 Giessen.

Institut für Angewandte Botanik der Universität Hamburg, 2000 Hamburg 36, Marseillestr. 7.

Institut für Pflanzenökologie der Justus Liebig-Universität, Heinrich-Buff-Ring 38. 6300 Giessen.

Institut für Pharmakologie, Toxikologie u, Pharmazie d. Tierärztlichen Hochschule, 3000 Hannover, Bischofsholer Damm 15.

Institut für Technische Physik der Frauenhofer-Gesellschaft, Königstr. 70/74, 7000 Stuttgart-Degerloch.

Landesanstalt für Immissionschutz des Landes Nordrhein-Westfalen, Wallneyer Str. 6, 4300 Essen.

Landesanstalt für Umweltschutz Baden-Württemberg, Institut für Immissions-Arbeits- u, Strahlenschutz 75 Karlsruhe 21, Hertzstr. 173.

Landwirtschaftliche-Universität Hohenheim Institut für Tierernährung, Fachgr. 9, 7000 Stuttgart 70, Emil Wolff-Str. 8.

Med. Fakultät der RWTH Aachen Abt. Hygiene und Arbeitsmedizin Lochnerstr. 4-20. 5100 Aachen.

Medizinisches Institut für Umwelt-hygiene, 4000 Düsseldorf, Gurlittstr. 53.

Medizinische Hochschule Hannover Abt. für experimentelle Pathologie, Theoretische Institute, Karl-Wiechert-Allee 9, 3000 Hannover 61.

Ministerium f. Arbeit, Gesundheit u. Soziales des Landes NRW, 4 Düsseldorf 1, Postfach 1134.

Rhein, -Westf. Technischer Überwachungs-Verein e.V., Steubenstr. 53 4300 Essen.

Silikose-Forschungsinstitut der Bergbau-AG, Medizinische Abteilung, 4630 Bochum, Hundscheidstr. 12.

Berufsgenossenschaftliches Institut für Arbeitssicherheit-BIA, Lindenstr. 80, 5205 St. Augustin.

Steinkohlenbergbauverein Hauptstelle für Staub- und Silikosebekämpfung, 43 Essen-Kray, Franz-Fischerweg 61.

Technischer Überwachungs-Verein
Rheinland e.V., Postfach 101 750
5000 Köln 1.

Umweltbundesamt, 1000 Berlin 33,
Bismarckplatz 1.

Verein Deutscher Eisenhüttenleute,
Breite Str. 27, 4000 Düsseldorf.

Verein Deutscher Giessereifach-
leute e.V., Sohnstr. 70, 4000
Düsseldorf.

Verein Deutscher Ingenieure (VDI)
- Kommission Reinhaltung der Luft,
Graf-Recke-Str. 84, Postfach 1139,
4 Düsseldorf 1.
Secretary: Dr. Ing. Klaus Grefen.

Vereinigung der Technischen Über-
wachungs-Vereine e.V., 43 Essen,
Kurfürstenstr. 56.

VGB - Technische Vereinigung der
Grosskraftwerksbetreiber e.V. 43
Essen, Klinkestr. 29/31.

GREECE

Hellenic Association on Environ-
mental Pollution (ERYEA)
14 Xenofontos Street, Athens 118.
Director: Dr. A. Mavromatis.

INDIA

National Environmental Research
Institute, Nehru Marg, Nagpur-
440020.

Central Labour Institute, Off
Eastern Express Highway, Sion,
Bombay 400022.

Bhabha Atomic Research Centre,
Health Physics Division, Trombay,
Bombay 400085.

Department of Civil Engineering,
Indian Institute of Technology,
I.I.T. P.O. Hauz Khas, New
Delhi, 110 029.

Department of Civil Engineering,
Jadavpur University, Calcutta -
700032 (W.B.).

Indian Association for Air
Pollution Control,
School of Environmental Sciences,
Jawahar Lal Nehru University,
New Delhi - 110057.
President: Prof. J.M. Dave.

Indian Standards Institution,
'Manak Bhawan', 9 Bahadur Shah,
Zafar Marg, New Delhi - 110002.

Internal Combustion Engines
Laboratory, Department of
Mechanical Engineering, Indian
Institute of Technology, Madras-
600036.

National Institute of
Occupational Health, Meghani
Nagar, Ahmedabad - 380016.

All-India Institute of Hygiene
& Public Health, Dept. of
Occupational Health,
110 Chittaranjan Avenue,
Calcutta 700 073.

ISRAEL

The Public Council for the
Prevention of Noise and Air
Pollution in Israel (MALRAZ)
P.O. B. 23047, Tel-Aviv 61230,
Israel.

ITALY

Associazione Termotecnica
Italiana, Comitato di Studio
per l'Inquinamento Atmosferico
ATI/CSIA

c/o ISMAR, Via Assarotti 15/2
16122 - Genoa.

President: Prof. G. Ferraiolo.

Vice President: Prof. G. Zerbo.

Consiglio Nazionale delle
Ricerche, Piazzale delle Scienze
7, Rome.

ENEL - Direzione Construzioni
Termiche e Nucleari, Via G.B.
Martini, 3, Rome.

ESSO Standard Italiana - Environ-
ment Division, Piazza Industria,
46, Rome - EUR.

ILVA Society, Via Corsica 4,
Genoa.

Institute of Hygiene, University
of Ferrara, Corso Giovecca 173A,
Ferrara.

Institute of Hygiene, University
of Genoa, Via A. Pastore 1,
Genoa.

Istituto di Ingegneria Sanitaria
del Politecnico di Milano,
Piazza Leonardo da Vinci, 32,
20133 Milan.

Istituto Superiore di Sanita,
Viale Regina Elena 299, Rome.

Stazione Sperimentale per i
Combustibili, Viale De Gasperi 3,
San Donato Milanese, Milan.

JAPAN

The Institute of Public Health
6-1, 4-chome, Shironganedai,
Minato-ku, Tokyo 108.

Japanese Union of Air Pollution
Prevention Associations - JUAPPA,
c/o Industrial Pollution Control
Association of Japan,
Shuwa Toranomom No. 3 Bldg., 21-8
Toranomom 1 chome, Minato-ku,
Tokyo 105.

Executive Director: N. Suzuki.

Industrial Pollution Control
Association of Japan - IPCAJ,
Shuwa Toranomom No. 3 Bldg.
21-8 Toranomom 1 chome, Minato-
ku, Tokyo 105.

Osaka City Institute of Public
Health and Environmental Science,
8-34 Tojo-machi, Tennoji-ku,
Osaka-543.

MALAYSIA

Environmental Protection Society
Malaysia (EPSM),
Peti Surat 382, Petaling Jaya,
Malaysia.
Tel: 03. 757767.

MALTA

Society for Clean Air, 8-10
Civic Centre, Senglea, Malta.

MEXICO

Centro de Ciencias de la
Atmosfera, Circuito Exterior
Ciudad Universitaria, Mexico 20 DF.
Secretary: Dr. Humberto Bravo.

THE NETHERLANDS

Central Service for Environmental
Control Rijnmond,
's-Gravenlandseweg 565,
3119 XT Schiedam.

Council for Air Pollution,
Ministry of Public Health and
Environmental Hygiene,
P.O. Box 439
2260 AK Leidschendam.

Division for Air Pollution,
Gemeentelijk Bouw- en
Woningtoezicht, Mauritskade
9-11, 2514 HD 's-Gravenhage.

Division Technology for Society
TNO, P.O. Box 217, 2600 AE Delft.

Foundation Nature and
Environment,
Donkerstraat 17
3511 KB Utrecht.

KEMA, Research Institute for the
Electricity Producer,
Utrechtseweg 310, 6812 AR Arnhem.

Laboratory for Water, Soil and
Air Pollution, Municipal Health
Service, Nieuwe Achtergracht 100,
1018 WT Amsterdam.

National Institute of Public
Health, P.O. Box 1, 3720 BA
Bilthoven.

Research Institute for Environ-
mental Hygiene (TNO), Atmos-
pheric Pollution Division,
P.O. Box 214, 2600 AE Delft.

SICOM, Foundation for Inter-
national Liaison on Environmental
Protection, P.O. Box 186,
2600 AD Delft.
President: Dr. Lew A. Clarenburg.

Stichting Concawe (International
Study Group for Conservation of
Clean Air and Water in Western
Europe),
Babylon-Kantoren A,
Koningin Julianaplein 30-9
2595 AA DEN HAAG.

Study and Information Centre TNO
on Environmental Research, P.O.
Box 186, 2600 AD Delft.

TNO-Project for Emission
Registration, P.O. Box 342,
7300 AH Apeldoorn.

NEW ZEALAND

New Zealand Clean Air Society
Inc., P.O. Box 2363, Christchurch,
New Zealand.

NORWAY

Institute of Preventive Medicine,
University of Oslo, Gydas Vei 8,
Oslo 3.

The State Pollution Control
Authority, Oslo Dept., Oslo 1.

Norwegian Institute for Air
Research, P.O. Box 130-2001
Lillestrom.

SINTEF, avd. 21, 7034, Trondheim
- NTH, Norway.

Norwegian Air Pollution Abatement
Society (NAPAS)
Norske Sivilingeniører Forening,
Kronprinsensgt. 17, Oslo 2.
Secretary: Alf Reistad.
Tel: Oslo 41. 71. 35.

PERU

Asociacion Peruana para el control
de la Contaminacion
del Aire (APPCCA)
Casilla No. 11246
Lima 14
Peru.
President: M.A. Vizcarra Andreu.

SAUDI ARABIA

Meteorology and Environmental
Protection Administration (MEPA),
PO Box 1358,
Jeddah,
Saudi Arabia.
Director General: R.M. Romaih
Tel: 671 0448 or 671 0439.

SOUTH AFRICA

Atmospheric Sciences Division,
National Physical Research Laboratory of the Council for Scientific and Industrial Research,
P.O. Box 395, Pretoria, 0001.

Chemical Engineering Research Group of the Council for Scientific and Industrial Research, P.O. Box 395, Pretoria 0001.

D. Giles & Co. (Scientific) (Pty) Ltd., P.O. Box 3891, Johannesburg, 2000.

National Association for Clean Air, P.O. Box 5777, Johannesburg 2000.
Director: Jack L. Easterbrook.
Tel: Johannesburg 646 0616.

SWEDEN

National Swedish Environment Protection Board, Box 1302, S-171 25 Solna.

Swedish Water and Air Pollution Research Laboratory, Box 5207, S-40224 Gothenburg 5.

International Meteorological Institute in Stockholm, Arrheniuslaboratoriet, S-10691 Stockholm.

Swedish Meteorological and Hydrological Institute, Box 923, S-60119 Norrköping.
AB Bahco, S-19981 Enköping.

AB Svenska Flaktfabriken, Box 81001, S-10481 Stockholm.

SWITZERLAND

Cercl'Air
Schweizerische Gesellschaft der Lufthygieniker, Postfach 317 CH-4502 Solothurn,

Eidgenössische Kommission für Lufthygiene, c/o Bundesamt für Umweltschutz, CH-3003 Berne.

Schweiz. Gesellschaft für Umweltschutz (SGU), Merkurstrasse 45, Postfach, 8032 Zürich.

Schweizerische Vereinigung für Gesundheitstechnik (SVG), Postfach 305, CH-8035 Zurich.
President: W. Hess.

Schweizerische Vereinigung für Gewässerschutz und Lufthygiene (VGL), Postfach 3266, CH-8031 Zürich.

Verein zur Förderung der Wasser- und Lufthygiene (VFWL), Spanweidstrasse 3, 8006 Zürich.

World Wildlife Fund, WWF Schweiz, Postfach, 8027 Zürich.

THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

Environment and Human Settlements Division, Palais des Nations, Geneva, Switzerland.
Director: C. Lopez-Polo.

U.S.A.

Air Pollution Control Association, P.O. Box 2861, Pittsburgh, P.A. 15230.
Executive Vice President: Steve Hart.

Bituminous Coal Research Inc.,
350 Hochberg Road, Monroeville
PA 15146.

U.S. Environmental Protection
Agency, Waterside Mall, 401 M
Street, S.W., Washington, D.C.
20460.

Also:
Research Triangle Park, North
Carolina 27711.

Other U.S. Governmental Air
Pollution Agencies and individual
State Agencies are listed in an
annual Directory published by
the Air Pollution Control
Association in co-operation with
the U.S. Environmental Protection
Agency.

URUGUAY

Asociacion Uruguaya Contra la
Contaminacion del Aires, Calle
Colonia 1422, P. 6, A 601 Monte-
video, Uruguay.

President: Dr. J.O. Ubios.

YUGOSLAVIA

Yugoslav Society for Clean Air,
71001 Sarajevo,

P.O. Box 79,

Masinski fakultat, Yugoslavia.

President: Prof. Milenko Krstic.

WORLD HEALTH ORGANIZATION

DIVISION OF ENVIRONMENTAL

HEALTH

Avenue Appia, 1211 Geneva 27,
Switzerland.

Dr. H.W. de Koning.

*Entry taken from 1983
Members' Handbook, as no
reply received from enquiry.

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on various pollution and environmental topics. Application for the loan of films, or for the purchase of audio visual aids, should be made to the relevant issuing organisation referred to in the lists. Films are on free loan unless hire charges or purchase price are quoted. Two or three weeks notice should be given in advance of borrowing/hire of films for a specific date. Please note that 'sound' films should never be run on a silent projector.

This year's guide concentrates on the most recent films and filmstrips, but many of those featured in past Handbooks are still available.

BRITISH GAS CORPORATION

THE AIR - MY ENEMY

Colour 25 mins.
16 mm + Super 8 mm
Mainly deals with contamination of the air, but other forms of pollution are described.

I'M GLAD YOU ASKED THAT QUESTION

Colour 10 mins.
16 mm + Super 8mm
Cartoon showing how natural gas was formed, discovered and put to use. (Suitable for 10-14 years age range.)

A SUN FOR ALL SEASONS

Colour 12 mins. 16 mm
Tells why the seasons change. (Designed mainly for middle schools.)

SUPER NATURAL GAS

Colour 10 mins.
16 mm + Super 8 mm
Describes, in a humorous cartoon, how North Sea gas is brought ashore. (Suitable for 11-14 years age range.)

THE WASTEFULS - SAVE THEIR ENERGY

Colour 21 mins. 16 mm
A musical animation film to encourage energy conservation which features the comic-strip Wasteful Family. (For children up to 10 years.)

The above films are available on free loan from:
BRITISH GAS FILM LIBRARY
Park Hall Road Trading Estate,
London SE21 8EL
Tel: 01-761 3035
Please allow four weeks' notice

BRITISH MEDICAL ASSOCIATION

DO YOU MIND IF I SMOKE?

Colour 26 mins.
16 mm 1981
Deals with the dangers of "passive" or "side-stream" smoking, the effects of which contribute to the deaths of several thousand non-smokers each year.

POLLUTION

Colour 10 mins.
16 mm 1971
A series of 6 short 'spots' dealing with pollution

problems and smoking.

(No commentary)

Available from:

BMA/BLAT FILM LIBRARY

BMA House,

Tavistock Square,

London WC1H 9JP

Tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

COAL - THE BRIDGE

Colour 25 mins.

16 mm + video

Looks at modern coal mining and processing; stresses that massive investment is necessary to double world coal production to meet future energy demands.

ENERGY WITHIN REASON

Colour 26 mins.

16 mm + video

Energy sources must be conserved if we are to have time to develop alternative means of powering the 21st Century. Demonstrates some of the ways in which energy can be used more efficiently.

THE SHADOW OF PROGRESS

Colour 27 mins.

16 mm + video

Deals with the environmental problems posed by a technological age and discusses remedies.

THE TIDE OF TRAFFIC

Colour 29 mins.

16 mm + video

Examines the dilemma posed by the benefits and problems of the motor vehicle and its ever increasing use.

The above films are available on free loan from:

THE BP FILM LIBRARY

15 Beaconsfield Road,

London NW10 2LE

Tel: 01-451 1129

CEGB FILM LIBRARY

ANOTHER SAFE JOURNEY

Colour 16 mins.

16 mm 1983

This film looks at the transport of irradiated nuclear fuel from power station to railhead en-route to the reprocessing plant. The stringent safety measures carried out by British Rail are discussed. We are shown how the progress of the flasks is monitored by a computer. The care taken in the manufacture and testing of the 50-tonne transport flasks and the checks carried out at the power station before the journey begins are also shown.

OPPORTUNITY AT SIZEWELL

Colour 21 mins.

16 mm 1982

Explains in layman's terms why the CEGB wants to construct a Pressurised Water Reactor nuclear power station at Sizewell.

WITH SAFETY IN MIND

Colour 29 mins.

16 mins + video 1984

The purpose of this film is to show the emphasis placed on safety in the design, construction and operation of nuclear power stations; in the handling of radioactive waste; and in the monitoring of the environment around power stations.

The above films are available on free loan from:

CENTRAL ELECTRICITY GENERATING BOARD FILM LIBRARY

Sudbury House, 15 Newgate Street,

London EC1A 7AU

Tel: 01-247 1202

CFL VISIONAIR POLLUTION -- A MEDICAL
INVESTIGATION OF ONE ASPECT

UK 2686 Free

Colour 17 mins.

16 mm 1972.

Studies of air pollutants and their effects on people carried out at the Medical Research Council Air Pollution Unit at St. Bartholomew's Hospital. The film is mainly concerned with vehicle exhaust pollution, research on which includes air and blood sampling, and respiration and performance tests.

MANAGEMENT OF NUCLEAR WASTE

UK 2972 Free

24 mins.

16 mm + video 1983

Explains the nature of nuclear wastes, the significance of their radioactivity, where they come from, how they are dealt with today and the safeguards involved.

OLD HABITS DIE HARD

UK 3490 Special Price Hire

Colour 32 mins.

16 mm + video 1981

Re-examines the problem of the foundry - dust, fumes, molten metal and machinery.

RUBBISH TIPS

UK 2857 Free

Colour 11 mins.

16 mm + video 1979

How household waste can be collected and how voluntary groups can be organised.

THE SKY IS A CANVAS

UK 3389 Special Price Hire

Colour 22 mins.

16 mm + video 1978

Sequences illustrating the work of an Alkali Inspector, interwoven with paintings by Lowry, demonstrate what has been done in the matter of air pollution.

WHATEVER HAPPENED TO THE
COUNTRYSIDE

UK 3423 Free

Colour 25 mins.

16 mm + video 1979

Looks at the changes in the countryside resulting from tree felling, the ravages of Dutch Elm disease and highly mechanised farming.

Available, with details of hire price, from:

CFL VISION

Chalfont Grove,

Gerrards Cross,

Bucks SL9 8TN

Tel: Chalfont St. Giles

(02407) 4433

CONCORD FILMS COUNCIL LTD

ACID RAIN: REQUIEM OR RECOVERY

Film hire £12.40

Video Hire £9.80

Colour 27 mins. 1982

Looks at the consequences of acid rain and asks whether enough action is being taken to check its destructive capability.

THE ALTERNATIVE IS CONSERVATION

Film hire £11.00

Colour 20 mins. 1980

Shows how water shortages in America could be solved by conservation rather than increasing the number of wells and reservoirs.

CRISIS IN THE MALAYSIAN
ENVIRONMENT

Film hire £15.20

Colour 21 mins. 1980

One of the first films produced by a developing country about the environmental crisis.

The problems shown are common to all third-world countries and the film raises questions relating to the responsibility for them.

THE HAUNT OF MAN

Film hire £23.80

Video hire £14.00

Colour 60 mins. 1982

Presents a grim warning about the threat to man's survival if the plundering of the earth's resources continues at the present rate. Six hundred million people currently receive less food than they need to survive because 80% of the world's resources are consumed by 25% of its population.

S.P.L.A.S.H.

Film hire £7.80

Video hire £5.80

Colour 13 mins. 1980

Entertaining cartoon about water pollution featuring The Droplets, who fall as rain and encounter chemicals, oils and effluent which threaten their existence.

TO BUILD A POLLUTION-FREE CAR

Film hire £13.00

Colour 18 mins.

Discusses the vast amount of pollution emitted by cars in America and possible solutions such as a steam turbine car, devised by the inventor William Lear. Also looks at the vested interests of the car industry in opposing such innovation.

Available from:

CONCORD FILMS COUNCIL LTD

201 Felixstowe Road,

Ipswich,

Suffolk IP3 9BJ

Tel: Ipswich (0473) 76012

ELECTRICITY COUNCIL FILM LIBRARY

ELECTRIC VEHICLES - WHAT ARE THE FACTS?

Colour 20 mins

16/8 mm

IT'S ELECTRIC

Colour 29 mins.

16 mm 1984

Surveys the electricity supply industry, from conventional power stations to advanced gas cooled reactors. Also looks at heat pumps, wind/wave power and future research.

Available on free loan from:

ELECTRICITY COUNCIL FILM LIBRARY

30 Millbank,

London SW1P 4RD

Tel: 01-834 2333

Additional information is available from UNDERSTANDING ELECTRICITY, the educational information service sponsored by the electricity supply industries in the United Kingdom and the Republic of Ireland, and the UK Atomic Energy Authority.

A catalogue lists 16 mm films, 35 mm filmstrips, posters, publications, information sheets, wall charts and other educational material.

Facilities (including environmental study centres, nature trails and visits to power stations) are provided by the Regions of the Central Electricity Generating Board and the Supply Undertakings in Scotland and

Ireland. Details from UNDER-
STANDING ELECTRICITY, at the
above address.

THE GUILD ORGANISATION

AEROSOLS - WHAT, WHY, HOW

185 3837-6 Free

Colour 10 mins.

Shows how aerosols work, their
history and the simple safety
rules for their use. (Includes
a dramatic example of what
happens when a can of paint
is punctured.) Particularly
suitable for secondary school
pupils.

ALTERNATIVES

185 1135-1 Free

Colour 32 mins.

Explores alternative sources
of energy to fossil fuels -
such as wind, water and solar
power - in a journey from
Germany to France, South Africa,
Brazil, England and the U.S.

THE CORROSION CHALLENGE

115 0358-1 Free

Colour 18 mins.

Shows how one particular company
has developed systems to prevent
the problems of corrosion;
looks at their application in
marine piles, submarine gas
pipeline, etc.

A FIGHT FOR BREATH

900 9962-9 £8 hire.

Colour 11 mins.

Illustrates graphically why a
sufferer from emphysema has
difficulty in breathing; uses
animated cross-sectional models
to show the entire respiratory
system and how it is damaged.

THE RIVER THAT CAME CLEAN

300 1211-8 £15 hire

Colour 45 mins.

Examines the history of the
River Thames from its fouling in
Victorian times to its present
standard of cleanliness,
acceptable even to salmon which
now swim through Central London.
(Note: this film and TAKEN FOR
GRANTED available on free loan
to anyone living within the
Thames Water Region.)

TAKEN FOR GRANTED

300 7457-6 £8 hire

Colour 15 mins.

Shows how the Thames Water
Authority processes the 1000
million gallons of sewage it
receives each day, discharging
1000 million gallons of clean
water into the Thames.

Available from:

THE GUILD ORGANISATION

Guild House,

Peterborough PE2 9PZ

Tel: Peterborough (0733) 63122

(Hire charges quoted do not include
carriage.)

LOUGHBOROUGH UNIVERSITY

ENVIRONMENTAL FILMS

AIR POLLUTION

1. SOURCES AND EFFECTS

Colour 20 mins. £20 (2 days)

Air pollutants are particulates,
gas or radioactive materials
from both natural and man-made
sources. These are detailed,
their effects on people and
the environment illustrated.

2. THE SCIENCE OF THE SITUATION

Colour 22 mins. £20 (2 days)

Measurements of size, density
and shape classify particles
and to a large extent their
behaviour in air. The film
shows how knowledge of the
nature and behaviour of the

material to be removed is necessary before deciding which type of equipment is most suitable.

3. METHODS OF CONTROL

Colour 28 mins. £23 (2 days)

Intelligent air pollution legislation based on scientific understanding balances environmental improvement with economic realism. The balance is between conservation, pollution and improving standards of living.

WATER MANAGEMENT

1. QUALITY AND SUPPLY

Colour 27 mins. £23 (2 days)

To maintain the quality of mains water, collected, treated and distributed by the Water Authorities requires close control of waste water discharges by industry at all stages. Costs of supplying and treating water, sources and effects of river pollution and control by the measurement of biochemical oxygen demand are discussed.

2. USE AND TREATMENT

Colour 28 mins. £23 (2 days)

Shows the basis of charges for disposing of waste water from industry. The treatment of used water both before and after discharge to sewer is discussed and the point made that major cost savings can result by relating quality to use, by conservation, re-cycling and re-use.

NOISE

1. NOISE AND PEOPLE

Colour 18 mins. £23 (2 days)

Shows how various are the effects of noise in different situations. Simple and complex

sounds are shown on the oscilloscope and spectrum analyser. Loudness, intensity, decibels and the use of sound level meters are explained.

2. THE SCIENCE OF SOUND

Colour 20 mins. £20 (2 days)

The physical principles which govern the behaviour of sound are explained. What we hear depends on what happens to sound as it travels. The effects of distance, atmospheric variations and obstacles are shown.

3. CONTROL OF NOISE

Colour 19 mins. £20 (2 days)

Most noise comes from machines so that the more machines the greater the problem, unless the source of the noise is tackled. The principles and practice of effective noise reduction by distance, barriers, insulation and personal protection are described.

4. NOISE (NCB)

Colour £20 (2 days)

Sequences selected by the NCB for training purposes from Noise 1 & 3 are combined to provide a general awareness film.

THE BUILT ENVIRONMENT

1. BUILDINGS FOR PEOPLE

Colour 35 mins. £25 (2 days)

Shows how integrated environmental design can create buildings which provide a satisfactory environment, are economical to run and maintain, and are aesthetic. Form, shape and materials affect the amount of noise, heat, air and light flowing into, out of or around buildings as well as the

aesthetics and structural system. Design and research in building environmental engineering are emphasised.

2. BIRTH OF A LIBRARY

Colour 27 mins. £23 (2 days)

A University Library has to satisfy specific needs. The film traces the project from green field site to the building in use. It looks at why a new library was needed; how an appropriate design was evolved; how the building itself was constructed, fitted out, furnished and made ready for use. The responsibilities of people who were involved are described in the context of their work.

All films are for sale in 16 mm or video cassette. Half price hire rates for educational establishments.

Available from:

Sonia Withers,
Centre for Extension Studies,
Loughborough University
of Technology,
Loughborough,
Leicestershire LE11 3TU
Tel: Loughborough (0509) 263171

MOTHERWELL BRIDGE TACOL LTD

DONCASTER REFUSE RECYCLING PLANT
10 mins.

Video (for play on a Sony U-Matic system).

Of considerable environmental interest, this is a video cassette including commentary.

NO TIPPING

Colour 14 mins.
16 mm

Available from:

MOTHERWELL BRIDGE TACOL LTD.

Green Dragon House,
64/70 High Street,
Croydon,
Surrey CR0 1NA
Tel: 01-686 6917

NCB FILM LIBRARY

NOISE

Colour 20 mins.

16 mm 1981

An introduction to noise control.

THE SHAPE OF FUEL TO COME

Colour 24 mins.

16 mm 1981

The Coal Research Establishment is continually improving methods of coal combustion for industrial and domestic users.

TIP RESTORATION

Colour 18 mins.

16 mm 1982

A primer on the techniques employed in order to reclaim colliery waste tips and restore them to fertility.

The above films are available on free loan (£2 handling charge per programme) from:

NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London SW1X 7AE
Tel: 01-235 2020
Telex: 882161

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY

Colour 25 mins.

16 mm Free loan

Available from:

SHEFFIELD PUBLICITY OFFICE
Town Hall,
Sheffield S1 2HH
Tel: (0742) 734068 or 734130

SHELL FILM LIBRARY

ENVIRONMENT IN THE BALANCE

Colour 30 mins

16 mm 1978

Accompanied by notes and also available on VHS and U-Matic video-cassette. Shows how geological, topographical and social developments in Britain helped to shape our environment. Discusses industrial expansion, population growth and pollution.

EYE ON THE FUTURE

Colour 23 mins.

16 mm 1982

Accompanied by notes and also available on VHS and U-Matic video-cassette. Looks at the need for a low-energy future and examines current developments in low-energy transport, food production and buildings.

PESTICIDES IN FOCUS

Colour 24 mins.

16 mm 1970

Surveys man's use of pesticides over the last 200 years and reviews alternatives to the modern chemical pesticides; but concludes that the latter are necessary, given the ever increasing demand for food.

THE RISE AND FALL OF OIL DEMAND IN THE UK

Colour 13 mins.

Video 1982

Accompanied by notes, this video tells the story of the post-war growth of oil, the oil supply crises of 1973 and 1978/9 and its subsequent decline.

WRAPPING UP

Colour 9 mins.

16 mm 1980.

Also available on VHS and U-Matic video-cassette. 50% of our total energy requirement in the UK is for light, heat and hot water.

This film shows several ways of reducing the energy required to heat our homes.

Available on free loan from:

SHELL FILM LIBRARY

25 The Burroughs,

Hendon,

London NW4 4AT

Tel: 01-202 7803

VISCOM LTDTHE DESIGN & SAFETY OF THE
SIZEWELL PWR

Colour 75 mins.

Video only (U-Matic, VHS & Beta)

Free 1982

Sir Walter Marshall presents the case for the construction of a PWR in the UK.

THE MANAGEMENT OF NUCLEAR WASTE

Colour 24 mins.

16 mm 1982

Deals with the treatment, disposal, containment and dispersal of wastes. Also explores some international proposals for the long term disposal of nuclear waste.

THE NUCLEAR FUEL CYCLE

Colour 22 mins.

16 mm 1981

Puts the argument for full exploitation of the fuel cycle - including use of the fast reactor which would stretch uranium resources for hundreds of years.

RECOVERY & TREATMENT OF EMULSIONS
(protection of the sea)

Colour 17 mins.

16 mm 1979

Describes a technique developed by Total for combatting oil pollution on beaches and at sea.

TOTAL A L'HEURE SOLAIRE

Colour 17 mins.

16 mm 1979

Free

Looks at Total's activity in the field of solar energy and shows a number of applications: domestic, commercial and agricultural.

Note: these 16 mm films are also available on VHS and Beta video cassettes at £11.75 + VAT

VISCOM LTD

Film & Video Library,
Parkhall Road Trading Estate,
London SE21 8EL
Tel: 01-761 3035

BARRY WILES FILMS

IF YOU CAN KEEP YOUR COOL

Colour 10 mins.

Super 8 mm 1978

An Electricity Council film showing the advantages of air conditioning for a busy disc jockey.

NOW AND THEN

Colour 28 mins.

Super 8 mm

Traces the development of the British Gas Industry.

The above films are available on free loan from:

BARRY WILES FILMS,
London Road Trading Estate,
Sittingbourne,
Kent ME10 1NQ

GENERAL AUDIO-VISUAL TEACHING
AIDS (SLIDES, CASSETTES ETC.) ON
ENVIRONMENTAL SUBJECTS

Charges quoted are purchase prices, unless otherwise stated.

AEROFILMS LTD

EXTRACTION, CONSERVATION AND POLLUTION

Set of 24 serial photographs taken of different areas in Britain, e.g. air and sea pollution by coastal industrial plant, Workington, Cumberland. Available as 9 in. x 7 in. 8/W prints, £3.90 set; overhead projector transparencies, £12.10 set; 35 mm slides, £4.30 set.

A free proofing library service.

Available from:

AEROFILMS LTD
Gate Studios, Station Road,
Boreham Wood,
Hertfordshire WD6 1EJ
Tel: 01-207 0666

ASBESTOS INFORMATION CENTRE

2 slide-script presentations by a member of AIC staff.

ASBESTOS IN BUILDING

45 mins.

Intended to assist the building-owner to identify asbestos-containing installations and to determine the precautions required.

WHAT IS ASBESTOS?

20 mins.

Describes the origins and usage of asbestos together with the risk to health and the legal control limits.

Available from:
ASBESTOS INFORMATION CENTRE
Sackville House,
40 Piccadilly,
London W1V 9PA
Tel: 01-439 9231

CAMERA TALKS LTD

POLLUTION - CAUSES & EFFECTS 307
(47 frames : tape 33 mins.)

Details the causes of increasing pollution - the consumer society, increased traffic, changing patterns of housing - to promote awareness of the scale of the problem.

THE ENVIRONMENTAL HEALTH OFFICER

332 (40 frames : tape 19 mins.)

Looks at the day-to-day work of the EHO, including the supervision of food production, public hygiene and pest control.

TREATMENT OF SEWAGE & OTHER USED WATERS 339/7 (44 frames : tape 24 mins.)

Describes the part played by aerobic bacteria and gives a detailed explanation of the processes involved.

35 mm filmstrips £9.95 per part; slide sets in boxes £10.95 per part (exclusive of VAT).

Note: slides also available in cabinet files and wallets.

Available from:

CAMERA TALKS LTD

31 North Row,

London W1E 5EZ

Tel: 01-493 2761

DRAKE EDUCATIONAL PRODUCTIONS

COAL, PETROLEUM & METHANE

Single frame filmstrip, £6.50

ECOLOGY OF A CANAL

Single or double frame filmstrip together with cassette, £10.50

MAN & HIS ENVIRONMENT

Single or double frame filmstrip, £6.50

OUR CLIMATE & WEATHER

Single or double frame filmstrip together with cassette, £10.50

THE WATER CYCLE

12 slide set, £6.00

Available from:

DRAKE EDUCATIONAL PRODUCTIONS

St. Fagan's Road,

Fairwater,

Cardiff CF5 3AE

Tel: Cardiff (0222) 560333

PICTORIAL CHARTS EDUCATIONAL TRUST

Wallcharts and photopacks.

THE MOTOR CAR

£3.40 + VAT

Photo discussion pack

illustrating the impact of the motor car on our environment.

POLLUTION

£3.40 + VAT

Photopack surveys main forms of pollution, noting successes and areas where action still necessary.

POLLUTION & YOU

£3.40 + VAT

Photo discussion pack on small scale pollution including smoking and the use of aerosols.

RESPIRATION

£3.40 + VAT

30 x 40 in. chart shows the organs of external and the processes of internal respiration. Pictures make the point of air pollution and refer to lung cancer. With chart notes.

Available from:

PICTORIAL CHARTS EDUCATIONAL TRUST

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Tel: 01-567 9206 & 5343

VIEWTECH AUDIO-VISUAL MEDIAECOLOGY : BALANCE OF NATURE

Single frame filmstrip with audio cassette and guide notes, £26.40

Interactions are seen through food chains, changes in natural communities, disease, weather, and the cycles of chemicals.

ECOLOGY : SPACESHIP EARTH

Single frame filmstrip with audio cassette and guide notes, £26.40

The problems of pollution, overpopulation and consumption are related to the continued survival of our planet.

THE ECOLOGY OF AGRICULTURE

16 mm film £243.00 (Hire £12.00)
Videocassette £40.00

Examines the effects of modern agricultural methods with a view to provoking discussion.

Available from:

VIEWTECH AUDIO-VISUAL MEDIA

122 Goldcrest Road,

Chipping Sodbury,

Bristol BS17 6XF

Tel: Bristol (0272) 773422

WWF/IUCN INTERNATIONAL EDUCATION PROJECTACID RAIN - THE SILENT CRISIS

AVP 079 (40 frames) Slide pack
£7.95; filmstrip £3.95; cassette
£3.00

A summary of the known facts relating to one of the most controversial by-products of the industrial revolution and rain.

HELP SAVE THE WORLD AVP 056
(40 frames : 26 mins.)

A multi-media kit, including slidepack, cassette, poster, booklets and teacher's notes,
£9.90

Introduces the World Conservation Strategy and highlights practical

ways in which children can contribute to conservation by "thinking globally, acting locally".

RENEWABLE ENERGY FOR TODAY -
& TOMORROW AVP 069
(60 frames : 28 mins.)

Slide pack £9.90; filmstrip
£4.95; cassette £3.00

Summarises the major sources of energy in current use, including their problems and limitations; then details many of the safer renewable sources, capable of providing unlimited energy for the future.

WHY CONSERVE WILDLIFE AVP 002
(80 frames : 16 mins.)

Slide pack £11.95; filmstrip
£5.50; cassette £3.00

Discusses the economic and ethical aspects of conservation by relating it to problems of over-population, pollution, famine and the threat of nuclear war.

Note: prices do not include VAT or p+p.

Available from:

Conservation Education Services

WWF/IUCN EDUCATION PROJECT

Greenfield House,

Guiting Power,

Cheltenham,

Glos. GL54 5TZ

Tel: Guiting Power (045 15) 549

DIANA WYLLIE LTD

Full notes are supplied with filmstrips and slide sets.

All filmstrips, £7.00 each part

All slide sets, £11.50 each part

All cassettes, £4.00 each part.

AIR POLLUTION DW-145 & DW-146

Part 1 & 2 by Prof. R.S. Scorer.

(No cassettes)

THE AIR YOU BREATHE: DW-159

1 part only, by
Rear Admiral P.G. Sharp.
(No cassettes)

CLOUDS DW-19

1 part only, by Prof. R.S. Scorer.
Looks at haze, convection clouds,
ice clouds. (No cassettes)

ENERGY DW-166 & DW-167

Parts 1 & 2 by P.G. Sharp &
Harry Brown.
30-minute tape cassettes
available.

MAN-MADE WORLD DW-126 to DW-129

by John Donat.

Part 1: Environment

Part 2: Man and Machine

Part 3: Who Cares?

Part 4: Change is Normal

(No cassettes)

NATURE CONSERVATION IN THE

BRITISH ISLES DW-144

1 part only, by Dr. D.H. Dalby.
(No cassettes)

NOISE POLLUTION & ITS CONTROL

DW-175 & DW-176

Parts 1 & 2 by Dr. K. Attenborough.
30-minute tape cassettes
available.

NUCLEAR POWER DW-170 to DW-172

Parts 1, 2 & 3 by

Dr. Michael Flood. Tape
cassettes available.

POPULATION & RESOURCES DW-156

& DW-157

Parts 1 & 2 by Mary Campbell.
Tape cassettes available.

STABLE WEATHER DW-31

1 part only, by R.S. Scorer.
Deals with inversions, their
causes and effects. (No
cassettes)

UNSTABLE WEATHER DW-30

Deals with the growth of
cumulonimbus.

WASTE & RECYCLING DW-165

1 part only, by Tom Burke.
30-minute tape cassette
available.

WATER POLLUTION DW-147 & DW-148

Parts 1 & 2 by J. Ian Waddington.
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Available from:

DIANA WYLLIE LTD

1 Park Road, Baker Street,
London NW1 6XP

Tel: 01-286 1414

DIRECTORY OF CONSULTANTS

ACOUSTIC TECHNOLOGY LTD

58 The Avenue, Southampton
Tel: Southampton (0703) 37811
Telex: 47156 AT G

Independent firm of noise and vibration consultants established in 1970. There are over twenty well qualified specialists with a full range of instruments and laboratory facilities at their disposal. Services provided range from surveys and remedial recommendations for factory or community problems, to comprehensive impact studies and designs for major new projects.

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Factories 2/3, Bosworth House,
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Essex CO16 0EA
Tel: Clacton-on-Sea 861714
(STD 0255)
Colchester 570315
(STD 0206)

Sampling, laboratory analysis and technical appraisal services - including: atmosphere testing (e.g. office or factory working conditions), asbestos identification and estimation, monomer contents and other health and safety limits, water pollution, packaging safety, forensic work, expert witness. Full instrumentation (chromatography - GLC, TLC, HPLC, I-R visible and U-V spectroscopy, spectrophotometry, spectrography, polarography, etc.)

CHARLES ANDREWS & SONS

66 Brooklands Road, Sale,
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Tel: 061-973 6782

Telex: 669757

(Also at Glasgow, Liverpool and Wrexham).

Services offered include monitoring and reporting on air pollution arising from process and combustion plant, and devising solutions, including economic analysis.

Implementation may include design and specification of plant, inviting tenders, supervision of installation and commissioning. Design and supervision may also include any associated structures and services.

J.E. ARREGGER & COMPANY LTD

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Middlesex TW1 3SN
Tel: 01-891 1242
Telex: 893370 AREGER G

Chemical Engineering consultancy covering process design of chemical plants, energy surveys, trouble shooting; feasibility, safety, economic and technical studies. Specialists in petroleum technology, computer programs for chemical engineering design work, and design of low temperature and gas processing plant.

W.S. ATKINS GROUP CONSULTANTS

Woodcote Grove, Ashley Road,
Epsom, Surrey KT18 5BW
Tel: Epsom (037 27) 26140
Telex: 266701

Environmental planning, assessment, monitoring and control. Experience includes surveys of air and water quality, noise and ground contamination. Short-

and long-term environmental monitoring programmes established. Assessment of the effects of pollution on human health, ecological systems, agriculture and amenity. Modelling and dispersion studies. Advice on legislation, standards and enforcement. Environmental impact and cost-benefit assessments. Occupational health and safety studies. All aspects of pollution control engineering.

ATKINS & DOWNIE

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Tel: Rotherham (0709) 65151/2

Mechanical and Electrical Services. Design Consultants Specialising in: Technical and Economic Appraisals of Existing HEAT/CHP Plants. Investment Analysis of Capital Expenditure in Existing/Future Plant and Equipment. Chimney and Flue Gas Dispersal Investigations and Equipment Selection. Energy Conservation. Combined Heat and Power Technology. Terotechnology. Energy Management and Waste Heat Recovery. Buildings Services Design Consultancy In:- Air Conditioning - Ventilation - Heating - Steam - Condense - District Heating - Process Services - Domestic Hot and Cold Water - Drainage and Sanitation - Fire Services and Sprinklers - Electric Lighting - Power Lifts - Hoists - Sound Attenuation - Security and Allied Services.

BALFOURS

Yeoman House, 63 Croydon Road,
London SE20 7TW
Tel: 01-659 2221
Telex: 946448

Specialists in water treatment

and supply; sewerage and surface water drainage; treatment and disposal of sewage, solid and industrial wastes. Also air pollution control: monitoring, sampling, interpretation and design of air pollution control systems including legislative aspects. Typical project: air pollution monitoring of chemicals complex near Bombay, India.

BCRA SCIENTIFIC & TECHNICAL SERVICES LTD

Mill Lane, Wingerworth,
Chesterfield, Derbyshire S42 6NG
Tel: Chesterfield (0246) 209654

Sampling and specialist evaluation of carbonaceous materials; air pollution monitoring; dust/grit measurement in chimneys etc; personal sampling and occupational hygiene services. Also odour problem investigation including odour emission measurement, liquid effluent analysis and effluent treatability studies. Provision of basic process design data, plant troubleshooting and consultation with Water Authorities and Contractors.

BERRIDGE ENVIRONMENTAL LABORATORIES LTD

Robjohns Road, Chelmsford,
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Tel: Chelmsford (0245) 268461
Telex: 995282 HBB G

Consulting services and analysis on solid, liquid and gaseous wastes. Environmental monitoring and management for industry. Asbestos identification and atmospheric fibre counting. Toxic and hazardous wastes a speciality.

BOSTOCK HILL & RIGBY LTD

288 Windsor Street,
Birmingham B7 4DW
Tel: 021-359 5951
Telex: 337273

Environmental Protection Services

The scientific consulting companies, Bostock Hill and Rigby, Thresh Beale and Suckling, and ICLS Laboratories Ltd., now offer their services under the title Bostock Hill & Rigby Ltd. Both a national and an international service is operated from Birmingham, U.K.

The group's services include atmospheric pollution studies (of solvents, dusts, asbestos, metals and fumes) with surveys and analysis undertaken, liaison with HSE, EMAS and other regulating bodies, and preparation of safe handling procedures for dangerous materials. Examination, survey and design of remedial measures for contaminated sites including assessment of hazards and supervision of remedial work. A similar service is available for water and effluent problems; also analysis of foodstuffs, beverages, water, chemicals, pharmaceuticals, fuels and soil. The group is expanding into new fields; energy conservation, virology and EIA.

BRITISH CONSULTANTS BUREAU

Westminster Palace Gardens,
1-7 Artillery Row,
London SW1P 1RJ
Tel: 01-222 3651/4
Telex: 24552 for BRITBURO

CADOGAN CONSULTANTS

37 Cadogan Street, Sloane Square,
London SW3 2PR
Tel: 01-589 9778/3557
Telex: 8950049 CADOGN G

Consultancy in the UK and world-wide in reduction and control of solid, liquid and gaseous pollution, particularly from combustion, gasification, synfuels processes, incineration, and processing of coal and other solid fuels and waste materials. Specialists in fluidized bed combustion and disposal of low grade materials with minimal atmospheric pollution. Toxic waste disposal and treatment. Chemical plant and processes in food, pharmaceutical, heavy and fine chemicals and agrochemical industries. Design, research and development of new processes and technologies for dealing with new pollution problems and sources. Appraisals and surveys of the economic, technical and social impact of pollution.

CPA ENVIRONMENTAL CONTROL ASSOCIATES

233/243 Wimbledon Park Road,
London SW18 5RJ
Tel: 01-874 7770

Air pollution consultants,
asbestos fibre/dust monitoring,
environmental protection of work premises.

DR. S.R. CRAXFORD, ISO

24 Field Lane, Letchworth,
Herts. SG6 3LE
Tel: Letchworth (04626) 5085
Specialist in air pollution.

CREMER & WARNER

140 Buckingham Palace Road,
London SW1W 9SQ
Tel: 01-730 0777
Telex: 918666 (CRECON G)

An engineering, management and scientific consultancy whose basic discipline is chemical engineering, strongly supported by mechanical, electrical, instrumentation and safety engineers and scientists. Wide-ranging services, based on study, development and implementation of chemical and process industry projects, now cover work in the hazard/safety, forensic and environmental fields.

With specific reference to Dust and Odour Control and Clean Air Conditions, services include solving practical problems, advising and assisting in planning, legislation and implementation of statutory regulations. Broad experience in process/manufacturing industries, mineral extraction and mining, and in advising local and central governments, enables the partnership to provide a service beyond the usual scope of individual specialist consultancy.

HUNTINGDON RESEARCH CENTRE plc
(DEPARTMENT OF INHALATION
TOXICOLOGY)

Huntingdon, Cambs. PE18 6ES
Tel: Huntingdon (0480) 890431
Telex: 32100

Huntingdon Research Centre is an independent contract research organisation offering confidential services and consultancy relating to the biological safety evaluation of chemicals - involving toxicity carcinogenicity and mutagenicity tests, chemical

and analytical services, etc. In particular, the Department of Inhalation Toxicology covers aspects of aerosol technology and inhalation toxicity testing.

INDUSTRIAL GAS CLEANING
ASSOCIATION

15 Tooks Court, London EC4A 1LA
Tel: 01-831 7581
Telex: 23485

Provision of technical information and advice. The Association has produced 5 booklets about specific applications which are available from the above address at 25p each (postage and packing free). Also general information booklet about Association and Members - free.

LYNE, MARTIN & RADFORD (PUBLIC
ANALYSTS)

The Public Analyst's Laboratory,
220 Elgar Road, Reading RG2 0DG
Tel: Reading (0734) 868877

Chemical, microbiological and microscopical examination of air samples, dusts and polluted atmospheres; particle size analysis; asbestos fibre counts.

METAL BOX ENGINEERING

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Bolton, Lancs. BL5 3JL
Tel: Westhoughton (0942) 815111
Telex: 67163
Contact: K. Roberts,
Contracts Engineer

MIDLAND ANALYTICAL CONSULTANTS

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Solihull, W. Midlands B93 8DW
Tel: Knowle (05645) 3804

Consulting chemists for: air and water pollution; insulation and building materials; health and

safety investigations; food and food processing.

NOISE ADVISORY SERVICES

3 Chapel Lane, Brockley,
Nr. Bury St. Edmunds,
Suffolk IP29 4AS
Tel: (028 483) 605

Noise Advisory Services offer an acoustics consultancy service covering most aspects of acoustics and noise control. These services include environmental noise surveys, advice on building and architectural acoustics both at the initial design stage and remedial work, on-site acoustic testing, building services acoustic design, and industrial noise control. Noise Advisory Services also have considerable experience in off highway vehicle noise including constructional site equipment.

NORSK HYDRO FERTILIZERS LTD LICENSING & CONSULTANCY SERVICES

Levington Research Station,
Ipswich, Suffolk IP10 0LU
Tel: Ipswich (0473) 715161
Telex: 98273

Dust and fume sampling and analysis for respirable and non respirable fractions, individual metals, asbestos, quartz and other constituents. Design and consultancy service for air pollution control. Specialist analytical service including scanning electron microscopy, X-Ray diffraction. Noise measurement.

OCCUPATIONAL HEALTH SERVICES

Listerhills Science Park,
17 Campus Road, Bradford BD7 1HR
Tel: Bradford (0274) 735848 or
598960

Occupational Health Services provide a comprehensive monitoring and analytical service in the field of environmental and occupational safety and hygiene. One of the leading laboratories in the country for identification and airborne monitoring of asbestos, OHS are at present carrying out extensive surveys for local authorities, asbestos removal contractors and other private companies. Also equipped for monitoring a whole range of pollutants likely to be encountered in industrial atmospheres and employing methods in line with current recommendations. Examples are: lead-in-air surveys for non-ferrous foundries, formaldehyde levels for board manufacturers, paper dust and solvent fumes in printing works, nuisance dusts in a whole range of manufacturing processes. Future noise legislation will place a duty on companies to comply with statutory limits set down by the HSE for which OHS are able to provide assistance in the form of surveys to identify problem areas and practical advice on noise reduction through engineering control. As a service to customers OHS supply the Martindale Mark 5 Positive Pressure Respirator complete with replacement filters; for companies engaged in their own monitoring air sampling equipment and accessories are supplied. For details of prices and full range of services ring Martin Penny on 0274 598960.

POLLUTION RESEARCH UNIT
INDUSTRIAL CONSULTANCY
SERVICES, UMIST
PO Box 88, Sackville Street,
Manchester M60 1QD
Tel: 061-236 3311
Telex: 666094 UMIST G
(Contact: Dr. Mike Willison)

The Pollution Research Unit (PRU) undertakes consultancy work in the areas of air and water quality monitoring, waste water treatment, disposal and treatment of solid and toxic wastes, analysis of contaminated land and the risk of major hazards.

The PRU is well equipped to offer a wide variety of services in air quality monitoring. These cover particulate sampling (including gravimetric, particle size and comprehensive chemical analysis), microscopic examination of particulates, personal monitoring, site surveys, foul odour problems, aerial surveys using an instrumented light aircraft (in conjunction with Physics Dept., UMIST). Consultancies are usually arranged on a contract, daily or per-sample basis.

BRIAN PRICE

14 Coombe Road,
Weston-super-Mare, Avon BS23 2QP
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33497

Advice and research on air, water and land pollution; monitoring of pollutants undertaken and reports prepared.

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Articles and reports written, edited, or commissioned on air pollution topics. Information, expertise, equipment, and software located and reviewed. Data analysed.

DR. F.H.H. VALENTIN MSc PhD CEng FIChemE

Elm Tree House, Letchworth Lane,
Letchworth, Herts SG6 3ND
Tel: Letchworth (04626) 4940

Odour assessment and abatement at low cost; dust and fume control; control of noxious gases and vapours; design of scrubbers and absorbers; efficient and low dust handling of powders and granular materials; plant and process changes to minimise air pollution. Also design of complete schemes - assistance with procurement, installation and commissioning.

DR. PAUL T. WILLIAMS BSc MSc PhD CEng FGS MInstE

2 Ridge Mount, Cliff Road,
Leeds LS6 2HD
Tel: Leeds (0532) 431751 ext. 295
(0532) 758735 (home)

Industrial pollution analyst and consultant.

WIMPEY LABORATORIES LTD

Beaconsfield Road, Hayes,
Middx. UB4 0LS
Tel: 01-573 7744
Telex: 935797

Wimpey Laboratories Ltd. is the largest privately owned building research establishment in Europe, providing an extensive national

and international environmental consultancy service which is operated from its Laboratory at Hayes, near London Airport, Middx.

Services provided are: monitoring of industrial stack emissions and ambient atmospheres for airborne pollutants, including identification and counting of asbestos; measurement of environmental and occupational noise from industry, construction, road traffic, aircraft and railway transportation; vibration measurement and studies of mechanical plant and equipment, including assessment of structural damage risks and advice on vibration isolation; energy audits, utilising infra-red thermal imaging to provide advice on the thermal properties and behaviour of buildings and the efficient use of energy.

TRADE DIRECTORY & BUYERS' GUIDE

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23 Denbigh Street,
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Humidifiers and purifiers,
dehumidifiers and mobile air
conditioners for domestic,
office, medical, computer,
industrial and agricultural use.
Free consultancy service and
nationwide despatch.

AIRMASTER ENGINEERING LTD

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Telex: 557227

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Air pollution control equipment,
including bag houses, dust
collectors, fabric filters, flue
dust extraction plant and gas
cleaning plant.

THE AIRWICK COMPANY

Manchester Old Road, Rhodes,
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Tel: 061-653 5901
Telex: 668262



Airwick odour control
concentrates counteract
virtually any type of problem
smell by the Airwick Malodour
Counteraction System. Malodours
are not simply masked but
neutralised, by pairing two
dissimilar odours. The System
can be used independently or
incorporated into an existing
system, and costs can be as
little as one tenth of those of
incineration or absorption.
Other designs available for
smaller areas, such as fast food
restaurants, garbage skips and
compactor sites. Airwick can
even provide an emergency smell
removal service for sudden odour
problems.

ANALYSIS AUTOMATION LTD

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Telex: 837509

Analysis Automation Limited
manufacture and market the widest
range of analysers for air
pollution, emission monitoring,
industrial safety and process
control, available in the U.K..
In addition to the supply of
analysers, AAL build complete
analytical systems and mobile
laboratories, including sampling
systems, calibration facilities
and data handling.

F.E. BEAUMONT LTD

Woodlands Road, Mere,
Wilts. BA12 6BT
Tel: Mere (0747) 860481

As the largest manufacturers and

erectors of industrial steel chimneys in the U.K., Beaumonts continue to manufacture all types



of chimneys, many of which can be designed to incorporate the Beauvent G.S.C. The G.S.C. is a low cost, high efficiency cyclone which prevents most of the unburnt solids produced in oil fired burning from being emitted into the atmosphere.

BOSTOCK HILL & RIGBY LTD

288 Windsor Street,
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Tel: 021-359 5951
Telex: 337273

Environmental Protection Services

The scientific consulting companies, Bostock Hill and Rigby, Thresh Beale and Suckling, and ICLS Laboratories Ltd., now offer their services under the title Bostock Hill & Rigby Ltd. Both a national and an international service is operated from Birmingham, U.K.

The group's services include atmospheric pollution studies (of solvents, dusts, asbestos, metals and fumes) with surveys and analysis undertaken, liaison with HSE, EMAS and other regulating bodies, and preparation of safe handling procedures for dangerous materials. Examination, survey and design of remedial measures for contaminated sites including assessment of hazards and supervision of remedial work. A similar service is available for

water and effluent problems; also analysis of foodstuffs, beverages, water, chemicals, pharmaceuticals, fuels and soil. The group is expanding into new fields; energy conservation, virology and EIA.

BRISTOL INDUSTRIAL & RESEARCH ASSOCIATES LTD

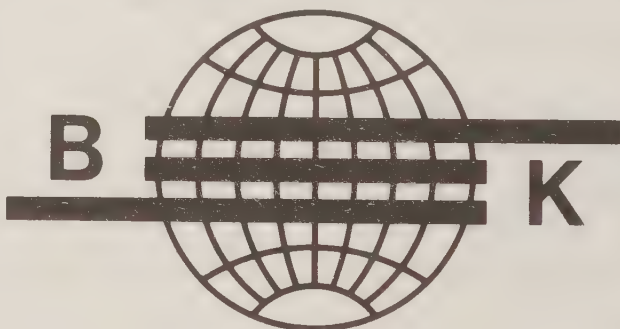
6 Combe Road, Portishead,
Bristol BS20 9JB
Tel: Portishead (0272) 847787
Telex: 444214



Distributors of scientific equipment, specialising in equipment for the detection and measurement of airborne pollution.

BRUEL & KJAER (UK) LTD

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Telex: 934150 bk labs g



Specialists in equipment manufactured for the measurement, analysis and recording of noise and vibration. A full range of major items of equipment is available, supplemented by a variety of accessories.

A wide selection of illustrated leaflets and booklets relating to

noise and vibration measurement is also available free upon request.

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Regent House, Britannia Walk,
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Tel: 01-253 8581

Telex: 26 16 41

Cables: Escutcheon London N1

Manufacturers of instruments for sampling industrial air pollution including dusts, asbestos, lead, gases, chemicals and fumes - wherever the pollutant is harmful to the health of workers or to the quality of a product. Also included is a wide range of meteorological instruments for measuring and recording environmental factors such as temperature, humidity and airflow.

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Salter Road,
Cayton Low Road Industrial Estate,
Scarborough,

North Yorkshire YO11 3UZ

Tel: Scarborough (0723) 584250

Telex: 527244 Castle G

Castle Associates is an independent British firm which has been manufacturing noise and vibration measuring and control products since 1971. A full calibration service is available at the company's modern factory in Scarborough; the company also offers acoustic consultancy and noise control services.

COALITE FUELS & CHEMICALS LTD

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Derbyshire S44 6AB

Tel: Chesterfield (0246) 822281/9

Telex: 54250



The Company, part of Coalite Group PLC, manufactures 'Coalite' smokeless coal and is Britain's largest independent producer of solid smokeless fuel for open fires, roomheaters and boilers. There are three works in Yorkshire and also one at Bolsover, Derbyshire, which is linked to Coalite's own refinery.

The Group also owns Randolph Coke and Chemical Company at West Auckland.

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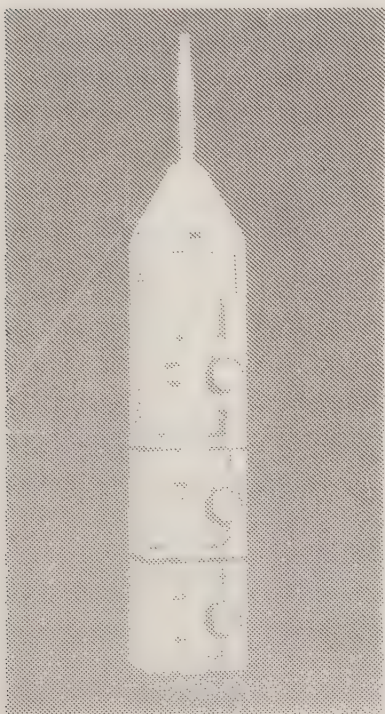
Temple Road, Cowley, Oxford

Tel: Oxford (0865) 776707

Telex: 837688

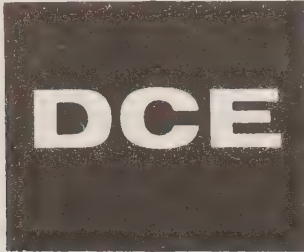
crowcon

Crowcon Instruments manufacture instruments and equipment for the detection of flammable gases, vapours, oxygen and toxic gases.



DUST CONTROL EQUIPMENT LTD

Thurmaston, Leicester LE4 8HP
 Tel: Leicester (0533) 696161
 Telex: 342409 DUST G
 Telegrams: Dust Leicester Telex



Design, manufacture, sale and installation of dust control equipment for industrial process applications. Products include a wide range of dust control filtration equipment including integral fabric unit filters, tubular filters, self-induced spray wet de-dusters, dust control units, automatic filtration systems and custom-built installations.

ENVIRO-TECHNOLOGY SERVICES LTD

East Camp,
 Staverton Airport,
 Cheltenham, Glos. GL51 6SX
 Tel: Cheltenham (0452) 857121
 Telex: 43432 DSA G

Enviro Technology - Specialists in Air Pollution Monitoring Equipment market a wide range of air quality analysers which are approved and used throughout the U.K. and the rest of the world. Our range includes analysers for NO_x, SO₂, O₃, H₂S, CO, NH₃, Hg, Dust, etc., together with calibrators and sampling systems. Our instruments are all manufactured to exacting standards to give the maximum valid data and highest possible reliability. E.T. are happy to assist with any aspect of Air Quality Monitoring from the

supply of a single analyser through to the design and build of complete analysis systems and mobile laboratories. To complete our range we offer full environmental data acquisition with central computer recording and reporting of data if required. Finally, we provide an after sales service which is second to none.

EPEMA

ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURERS ASSOCIATION
 136 North Street,
 Brighton BN1 1RG
 Tel: Brighton (0273) 26313



EPEMA was inaugurated in September 1972 under the auspices of NSCA. EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.

The Association ensures that its members manufacture, market and install equipment of the required standard.

ERG ODOUR PURIFICATION SYSTEMS LTD

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 Telex: 87509

Specialists in Air Pollution

Control and sole licensees for Patented Oxyflow Odour Control Systems. Total service capability, including design, installation and commissioning



ensures that each system is specifically engineered to suit each application. A member company of The Environmental Resource Group, the leading exponents in Effluent Treatment and Metal Recovery.

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Olympic Industrial Estate,
Fulton Road, Wembley, Middx.
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Telex: 261995



Impingement type mist and droplet eliminators available as framed elements for fitting into clients' equipment or as units complete with housings. Range covers for horizontal or vertical gas flow in metal or plastic materials.

Suitable for process gases, evaporators, air coolers, air conditioning systems, fume absorption and air cleaning and scrubbing equipment.

THE FILTERMIST COMPANY

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Tel: Bridgnorth (074 62) 5361
Telex: 339002

FILTERMIST

Manufacture air filtration equipment, including centrifugal filter units, electrostatic filter units and media filters; also liquid/solid separators, including automatic centrifuges.

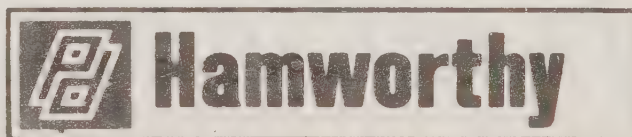
GLASS DEVELOPMENTS LTD

55 Acre Lane, Brixton,
London SW2 5AG
Tel: 01-733 5214

Manufacture air pollution measuring instruments for daily volumetric measurement of smoke and sulphur dioxide to BS 1747; deposit gauges for the measurement of grit and dust; standard lead dioxide candles.

HAMWORTHY ENGINEERING LTD

Fleets Corner, Poole, Dorset
BH17 7LA
Tel: Poole (0202) 675123
Telex: 41348



The Combustion Division of Hamworthy covers every aspect of combustion engineering from the supply of modular boilers, direct hot water heaters and radiant heaters for commercial use to oil and gas firing equipment for some of the world's largest generating

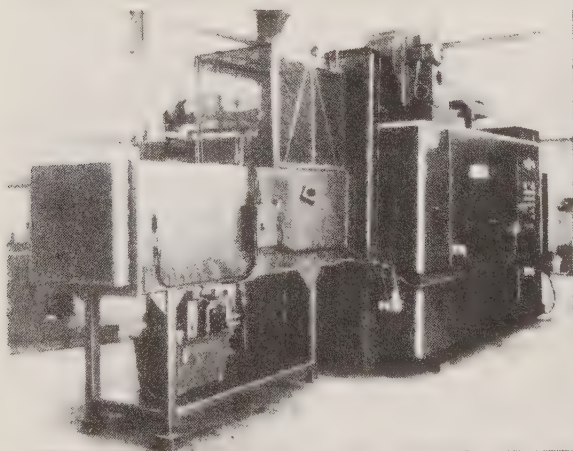
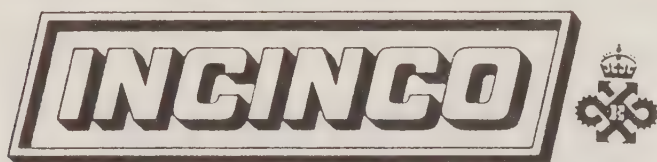
stations.

The AWM multifuel burner recently introduced is a unique development in coal firing; utilizing pulverised fuel in conjunction with 25% or less of oil or gas, the full rated capacity of the boiler is retained. Other manufactured items include fully automatic registers and combustion control equipment.

The Pump & Compressor Division of Hamworthy manufactures a wide range of pumps and compressors for marine and industrial use in addition to sewage treatment plant, incinerators and anaerobic digesters to obtain methane and enriched fertilizer from animal wastes.

THE INCINERATOR COMPANY LTD

Howard Road, Eaton Socon,
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Tel: Huntingdon (0480) 213171
Telex: 32337



Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical,

Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental Establishments.

LODGE-COTTRELL LTD

George Street Parade,
Birmingham B3 1QQ
Tel: 021-236 3388
Telex: 338458

Lodge-Cottrell

DRESSER

Lodge-Cottrell Ltd. manufacture a large range of air pollution control equipment, including bag houses, cyclones, dryers, gas cleaning and water treatment plant.

MASS TRANSFER INTERNATIONAL

Heversham, Cumbria LA7 7EB
Tel: Milnthorpe (04482) 3851
Telex: 65145



Design, consultancy and equipment supply in the field of gas-liquid interface engineering and its application in worldwide environmental protection for: dust removal, odour removal, toxic gas neutralisation, fume and flue gas scrubbing, liquid effluent treatment (domestic and industrial); using proprietary low energy systems and technology now incorporated into more than 1500 operating units worldwide.

METAL BOX ENGINEERING

Chew Moor Lane, Westhoughton,
Bolton, Lancs. BL5 3JL
Tel: Westhoughton (0942) 815111
Telex: 67163

Manufacturers of Thermal Oxidisers and Heat Recovery Systems for pollution and odour control; Liquid Waste Incinerators, and Gas/Air Coolers, under licence from Smith Environmental Corporation, USA.



Metal Box Engineering

Services include: Consultancy, design, manufacture, installation and commissioning. A full range of well-proven equipment is offered.

NALFLOC LTD

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Cheshire CW8 4DX
Tel: Northwich (0606) 74488
Telex: 66-86633



Local offices at: Aberdeen, Belfast, Dublin, Glasgow, Leamington Spa, London, Manchester, Chester, Stockton-on-Tees, Swansea, Sheffield.

Nalfloc Limited was founded by the association of the former "Airfloc" Water Treatment Service of ICI Ltd. and the Nalco Chemical Company.

Nalfloc provides a wide range of services, equipment and specialty chemicals for water and effluent treatment, for oil and petroleum industry, for paper making, for the metal industry, for the marine world, and for general process uses throughout industry.

PEABODY HOLMES LTD

Turnbridge, Huddersfield HD1 6RB
Tel: Huddersfield (0484) 22222
Telex: 51306



Peabody Holmes

Peabody Holmes provide total capability in industrial atmospheric pollution control. This means design, manufacture, erection and commissioning of a comprehensive range of plant including venturi and impingement plate scrubbers and multi-cell cyclones. Other equipment includes incinerators for the destruction of poisonous or objectionable liquids or gases from industrial processes. Oil, gas, pulverised fuel and combined fuel burners.

PLASTIC CONSTRUCTIONS plc

Tyseley Industrial Estate,
Seeleys Road, Greet,
Birmingham B11 2LP
Tel: 021-773 1331
Telex: 338752

Plastic Constructions plc,
Midlands Fabrications Division,
Evelyn Road, Sparkhill,
Birmingham B11 3JJ
Tel: 021-773 4951
Telex: 336747

The Plastic Constructions group design, manufacture and install the following equipment in acid-proof, corrosion resistant plastics: fume ducting, fume cabinets, placon fans and roof ventilators, pumps, valves, scrubbing towers, tanks, tank linings, pipe and pipelines.

REXCO LTD

Fullarton Lodge, Crow Hill Drive,
Mansfield, Notts. NG19 7AZ
Tel: Mansfield (0623) 22644
Telex: Rexco Mansfield 377142

**REXCO LIMITED**

Domestic Solid Smokeless Fuels and Industrial Chars, produced at Comrie, nr. Dunfermline, Scotland and Ollerton, Nottinghamshire.

A subsidiary of The Mining Investment Corporation Ltd. In Scotland and the North of England, Rexco, for open fires; Rexcobrite, for room heaters, boilers and cookers. In the remainder of England and Wales, Royal for open fires and Rexco Nuts, for room heaters, boilers and cookers.

RODWAY & TAYLOR (B'HAM) LTD

85-90 Buckingham Street,
Birmingham B19 3HU
Tel: 021-236 4027

Environmental engineers for effluent treatment plant, tanks, chimneys, dust and fume extraction and associated equipment.

SIDHA TECHNOLOGY LTD

15 Pithey Place, West Pimbo,
Skelmersdale, Lancs.
Tel: Skelmersdale (0695) 33935
Telex: 666387 Amstel G

Sidha Technology manufacture the Mountain Breeze range of Ionisers, designed to freshen and clean the air by removing dust,



smoke, pollen and bacteria. Additional benefits include increased alertness and concentration among staff as well as relief for those suffering from hayfever, migraine, asthma, catarrh and dust allergies.

SKC LTD

Hamworthy Trading Estate,
Dawkins Road,
Poole, Dorset
BH15 4JW
Tel: Poole (0202) 671121
Telex: 41589

SKC Ltd. offer a full range of products for air monitoring applications - from adsorber tubes to pumps, badges to monitors - and an Analytical Service for those without their own facilities.

UNISCIENCE LTD

12-14 St. Ann's Crescent,
Wandsworth, London SW18 2LS
Tel: 01-870 8886
Telex: 916212 Airsea G

Uniscience Ltd, a company supplying equipment to scientists, offers asbestos monitoring equipment including the Asbestest, a kit for sampling

solid samples for the possible presence of asbestos. The Asbestest procedure is a colour-metric qualitative test for the detection of magnesium and iron from asbestos in bulk samples, using a step by step procedure.

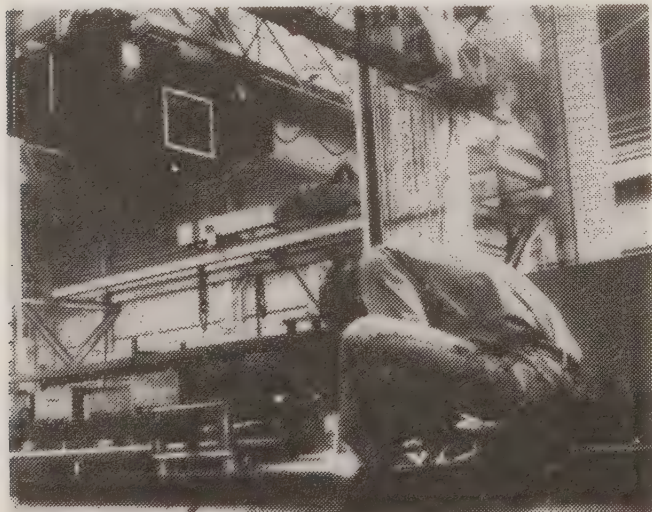


No training or equipment required to produce or save results. Uniscience also supplies equipment for the sampling, via filtration, of airborne asbestos fibres.

UNITED AIR SPECIALISTS (UK) LTD

Cranford, Blackdown,
Leamington Spa CV32 6RG
Tel: Leamington Spa (0926) 311621
Telex: 311665 UASUK G

Manufacturers of the SMOG-HOG
Electronic Air Cleaner for
collecting welding fumes, oil



mist and general airborne dust. Collection efficiency enables cleaned air to be recirculated to workshop area, thus obviating heat losses.

Also: SMOG-ROVA 'stay put' fume extraction arms and SMOKEETER air cleaners for removing tobacco smoke in offices, hotels, restaurants, etc.

Photograph: SMOG-HOG 'free-hanging' unit collecting welding smoke.

VISCO LTD

Stafford Road, Croydon CR9 4DT
Tel: 01-686 3861
Telex: 946085



Environmental Control Engineers specialising in the control and collection of airborne dust and particles. Manufacturers of evaporative water cooling towers of both open and closed circuit designs. Designers and manufacturers of air filters and housings for ventilating systems and complete dust control plants for dusts and gases generated from industrial processes. Many types of dust collectors are available to suit individual applications including cyclones, fabric tube collectors and wet scrubbers. Extraction plant for industrial fume removal can be designed with hoods and ducting where necessary. Also able to offer a complete noise

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Write for details.

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Systems Ltd.
Mass Transfer International

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Visco Ltd.

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Air Improvement Centre Ltd.

AIR FLOW INDICATORS

Bristol Industrial & Research
Associates Ltd.
Casella London Ltd.

AIR MOVERS

Peabody Holmes Ltd.

AIR POLLUTION CONTROL

Airmaster Engineering Ltd.
Bostock Hill & Rigby Ltd.
ERG Odour Purification
Systems Ltd.
Euroform (UK)
The Filtermist Company
Lodge-Cottrell Ltd.
Mass Transfer International
Metal Box Engineering
Peabody Holmes Ltd.
Sidha Technology Ltd.
United Air Specialists (UK) Ltd.
Visco Ltd.

AIR POLLUTION MEASUREMENT

Analysis Automation Ltd.
Bostock Hill & Rigby Ltd.
Bristol Industrial & Research
Associates Ltd.
Casella London Ltd.
Enviro-Technology Services Ltd.
Glass Developments Ltd.
SKC Ltd.

AIR POLLUTION MONITORING :

MOBILE LABORATORIES

Enviro-Technology Services Ltd.

AIR POLLUTION MONITORING :

SYSTEMS & NETWORKS

Enviro-Technology Services Ltd.

AIR PURIFICATION PROCESS

EQUIPMENT

ERG Odour Purification
Systems Ltd.
Mass Transfer International

AIR VELOCITY METERS

Bristol Industrial & Research
Associates Ltd.

ANALYSIS APPARATUS : AEROSOLS

Analysis Automation Ltd.
Bristol Industrial & Research
Associates Ltd.

ANALYSIS APPARATUS : GASES

Analysis Automation Ltd.
Enviro-Technology Services Ltd.
SKC Ltd.

ANALYSIS APPARATUS : NOISE, VIBRATION, ETC.

Brueel & Kjaer (UK) Ltd.

ANTI-SOOT & CORROSION : TREATMENT

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Nalfloc Ltd.

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Uniscience Ltd.

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Casella London Ltd.

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SKC Ltd.

BAG HOUSES

Airmaster Engineering Ltd.

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Nalfloc Ltd.

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Hamworthy Engineering Ltd.

BURNERS : GAS

Hamworthy Engineering Ltd.

Peabody Holmes Ltd.

BURNERS : OIL

Hamworthy Engineering Ltd.

Peabody Holmes Ltd.

BURNERS : SOLID FUEL

Peabody Holmes Ltd.

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POLYPROPYLENE)

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Plastic Constructions plc

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Rodway & Taylor (B'ham) Ltd.

CHIMNEYS : CLADDING, ALUMINIUM

F.E. Beaumont Ltd.

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F.E. Beaumont Ltd.

Rodway & Taylor (B'ham) Ltd.

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Hamworthy Engineering Ltd.

Peabody Holmes Ltd.

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Hamworthy Engineering Ltd.

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Metal Box Engineering

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Systems Ltd.

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Metal Box Engineering

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Air Improvement Centre Ltd.

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Peabody Holmes Ltd.

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The Airwick Company

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Analysis Automation Ltd.

Bristol Industrial & Research
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DETECTORS : EXPLOSIVE GASES

Analysis Automation Ltd.

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DETECTORS : SMOKE

Crowcon Instruments Ltd.

Glass Developments Ltd.

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Analysis Automation Ltd.

Casella London Ltd.

Glass Developments Ltd.

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Analysis Automation Ltd.

Crowcon Instruments Ltd.

SKC Ltd.

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Lodge-Cottrell Ltd.

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Mass Transfer International

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Lodge-Cottrell Ltd.

DRYERS : FLUIDISED BED

Lodge-Cottrell Ltd.

DRYERS : GAS

Peabody Holmes Ltd.

DRYERS : GAS ABSORPTION

Mass Transfer International

Peabody Holmes Ltd.

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ERG Odour Purification
Systems Ltd.

Peabody Holmes Ltd.

Plastic Constructions plc

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Dust Control Equipment Ltd.

Lodge-Cottrell Ltd.

Metal Box Engineering

Peabody Holmes Ltd.

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PLANT

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Dust Control Equipment Ltd.

ERG Odour Purification

Systems Ltd.

Lodge-Cottrell Ltd.

Metal Box Engineering

Peabody Holmes Ltd.

Rodway & Taylor (B'ham) Ltd.

Visco Ltd.

DUST COLLECTORS

Airmaster Engineering Ltd.

Dust Control Equipment Ltd.

Lodge-Cottrell Ltd.

Peabody Holmes Ltd.

Rodway & Taylor (B'ham) Ltd.

Sidha Technology Ltd.

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Rodway & Taylor (B'ham) Ltd.

Visco Ltd.

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Enviro-Technology Services Ltd.

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Bristol Industrial & Research
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Casella London Ltd.

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Hamworthy Engineering Ltd.

Mass Transfer International

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Lodge-Cottrell Ltd.

Sidha Technology Ltd.

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Plastic Constructions plc

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The Filtermist Company

Visco Ltd.

FILTERS : AIR : COMPRESSED

Visco Ltd.

FILTERS : DUST

Dust Control Equipment Ltd.

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The Filtermist Company

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Mass Transfer International

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Analysis Automation Ltd.

Bristol Industrial & Research
Associates Ltd.

Enviro-Technology Services Ltd.

FLUE GAS TREATMENT

Bostock Hill & Rigby Ltd.

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FUEL EFFICIENCY ADVISORY SERVICE

Bostock Hill & Rigby Ltd.

FUELS : SOLID SMOKELESSCoalite Fuels & Chemicals Ltd.
Rexco Ltd.FUGITIVE DUST SAMPLINGBristol Industrial & Research
Associates Ltd.FUME REMOVAL EQUIPMENTBostock Hill & Rigby Ltd.
ERG Odour Purification
Systems Ltd.
Euroform (UK)
The Filtermist Company
Peabody Holmes Ltd.
Plastic Constructions plc
United Air Specialists (UK) Ltd.
Visco Ltd.FURNACES, OVENS, KILNS, ETC.

Metal Box Engineering

GAS CLEANING PLANTAirmaster Engineering Ltd.
Lodge-Cottrell Ltd.
Peabody Holmes Ltd.GAS DETECTORSCrowcon Instruments Ltd.
SKC Ltd.GAS PURIFIERS

Mass Transfer International

GAS SCRUBBERS & WASHERSBostock Hill & Rigby Ltd.
ERG Odour Purification
Systems Ltd.
Lodge-Cottrell Ltd.
Mass Transfer International
Peabody Holmes Ltd.GRIT ARRESTORS

Mass Transfer International

HEAT EXCHANGERS

Metal Box Engineering

HEAT TRANSFER SYSTEMS

Metal Box Engineering

HEATERS : AIR

Peabody Holmes Ltd.

HEATING EQUIPMENT : INDUSTRIAL
(PROCESS / SPACE)

Hamworthy Engineering Ltd.

HEAVY METAL ANALYSERS

Enviro-Technology Services Ltd.

HUMIDIFIERS

Air Improvement Centre Ltd.

HUMIDITY CONTROLLERS

Air Improvement Centre Ltd.

HUMIDITY RECORDERSAir Improvement Centre Ltd.
Casella London Ltd.HYDROGEN SULPHIDE ANALYSERS

Enviro-Technology Services Ltd.

INCINERATORSHamworthy Engineering Ltd.
The Incinerator Company Ltd.
Peabody Holmes Ltd.INDICATORS : HUMIDITY

Casella London Ltd.

INDICATORS : SO_x

Analysis Automation Ltd.

INDICATORS : SOUND LEVEL

Bruel & Kjaer (UK) Ltd.

KITS : ANALYSIS, TESTING, SAMPLINGBostock, Hill & Rigby Ltd.
SKC Ltd.LEAK DETECTORS

SKC Ltd.

LECTURES, FILMSTRIPS, TAPE
SLIDES & NOTES

Diana Wyllie Ltd.

MEASUREMENT & DETECTION
EQUIPMENT

Bostock Hill & Rigby Ltd.
Crowcon Instruments Ltd.
Enviro-Technology Services Ltd.
Glass Developments Ltd.

MERCURY VAPOUR MONITORS

Enviro-Technology Services Ltd.

METEOROLOGICAL INSTRUMENTS

Bristol Industrial & Research
Associates Ltd.
Casella London Ltd.
Enviro-Technology Services Ltd.

METERS : SOUND LEVEL

Bruel & Kjaer (UK) Ltd.
Castle Associates Ltd.

MOBILE LABORATORY

Bostock Hill & Rigby Ltd.

MONITORING EQUIPMENT

Bruel & Kjaer (UK) Ltd.
Casella London Ltd.
Glass Developments Ltd.
SKC Ltd.

NOISE CONTROL CONSULTANTS

Bostock Hill & Rigby Ltd.
Castle Associates Ltd.
Visco Ltd.
Diana Wyllie Ltd.

NOISE SUPPRESSION

Visco Ltd.

NOISE/VIBRATION ATTENUATION

Visco Ltd.

NOISE/VIBRATION : COMMUNICATIONS
SYSTEMS

Castle Associates Ltd.

NOISE/VIBRATION : CONTROL
ENGINEERS

Visco Ltd.

NOISE/VIBRATION : CONTROL
SYSTEMS

Bruel & Kjaer (UK) Ltd.
Visco Ltd.

NOISE/VIBRATION : MEASURING
EQUIPMENT

Bruel & Kjaer (UK) Ltd.
Castle Associates Ltd.

ODOUR ABSORPTION

ERG Odour Purification
Systems Ltd.
Mass Transfer International

ODOUR ADSORPTION

ERG Odour Purification
Systems Ltd.

ODOUR CONTROL

The Airwick Company
Bostock Hill & Rigby Ltd.
ERG Odour Purification
Systems Ltd.
Mass Transfer International
Metal Box Engineering
Plastic Constructions plc

OIL DISPERSANTS

Nalfloc Ltd.

OIL MIST ELIMINATORS

Euroform (UK)
The Filtermist Company

OIL SPILLAGE : CONTROL/RECOVERY
EQUIPMENT

Bostock Hill & Rigby Ltd.

OVENS : INDUSTRIAL

Metal Box Engineering

OXIDES OF NITROGEN ANALYSERS

Enviro-Technology Services Ltd.

OXYGEN ANALYSERS

Analysis Automation Ltd.
Crowcon Instruments Ltd.

OZONE ANALYSERS

Enviro-Technology Services Ltd.

PIPELINE EQUIPMENT & SERVICES

Plastic Constructions plc

POLLUTION CONTROL ADVISORY SERVICES

Bostock Hill & Rigby Ltd.
Metal Box Engineering

PROCESS INSTRUMENTATION

Analysis Automation Ltd.

PUMPS

Hamworthy Engineering Ltd.
Plastic Constructions plc
SKC Ltd.

RADIANT HEATING

Hamworthy Engineering Ltd.

RESEARCH & DEVELOPMENT FACILITIES

Bostock Hill & Rigby Ltd.
Peabody Holmes Ltd.

SAFETY EQUIPMENT

Bostock Hill & Rigby Ltd.

SCRUBBERS

Bostock Hill & Rigby Ltd.
ERG Odour Purification
Systems Ltd.
Lodge-Cottrell Ltd.
Mass Transfer International
Peabody Holmes Ltd.
Plastic Constructions plc
Rodway & Taylor (B'ham) Ltd.

SEPARATORS : GASES

Euroform (UK)

SEWAGE TREATMENT PLANT

Hamworthy Engineering Ltd.
Mass Transfer International

SO₂ SAMPLERS

Casella London Ltd.
Glass Developments Ltd.

STACK EMISSIONS : MONITORING EQUIPMENT

Bristol Industrial & Research
Associates Ltd.
Enviro-Technology Services Ltd.

SULPHUR DIOXIDE ANALYSERS

Enviro-Technology Services Ltd.

SULPHUR DIOXIDE REMOVAL SYSTEMS

Mass Transfer International
Peabody Holmes Ltd.

SULPHUR RECOVERY PLANT

Peabody Holmes Ltd.

TANKS & TANK LININGS

Plastic Constructions plc
Rodway & Taylor (B'ham) Ltd.

TEMPERATURE RECORDERS

Air Improvement Centre Ltd.
Casella London Ltd.

TOWERS

Lodge-Cottrell Ltd.
Peabody Holmes Ltd.

UNIT DUST COLLECTORS

Dust Control Equipment Ltd.
Peabody Holmes Ltd.
Rodway & Taylor (B'ham) Ltd.

VENTURI SCRUBBERS

ERG Odour Purification
Systems Ltd.
Lodge-Cottrell Ltd.
Peabody Holmes Ltd.

WASHERS : AIR OR GAS

Peabody Holmes Ltd.

WASTE DISPOSAL EQUIPMENT

Peabody Holmes Ltd.

WASTE DISPOSAL SPECIALISTS

Bostock Hill & Rigby Ltd.

WASTE HEAT RECOVERY

The Incinerator Company Ltd.

Metal Box Engineering

Peabody Holmes Ltd.

WASTE MATERIAL DISPOSAL FURNACES

The Incinerator Company Ltd.

Metal Box Engineering

WASTE PURIFICATION

Bostock Hill & Rigby Ltd.

WATER TREATMENT PLANT

Bostock Hill & Rigby Ltd.

Lodge-Cottrell Ltd.

Nalfloc Ltd.

WET ARRESTORS

Dust Control Equipment Ltd.

Mass Transfer International

Peabody Holmes Ltd.



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1985-86 nsca MEMBERS HANDBOOK

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national society for clean air

1985-86 nsca MEMBERS HANDBOOK

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CONTENTS

NATIONAL SOCIETY FOR CLEAN AIR	1
MEMORANDUM AND ARTICLES OF ASSOCIATION AND BYE-LAWS	
Memorandum of Association	2
Articles of Association	4
Bye-Laws	12
HONORARY OFFICERS	16
THE COUNCIL OF THE SOCIETY	16
NSCA STAFF	19
WHO'S WHO 1985-1986	20
ANNUAL REPORT AND ACCOUNTS 1984-1985	41
DIVISIONAL MEMBERSHIP AND REPORTS	
Division 1 - Scotland	52
Division 2 - Northern Ireland	52
Division 3 - Northern	53
Division 4 - North West	55
Division 5 - Yorkshire and Humberside	57
Division 6 - West Midlands	59
Division 7/8 - East Midlands and Eastern	61
Division 9/10 - London & South East and Central Southern	63
Division 11 - South West	66
Division 12 - South and Mid Wales	68
SMOKE CONTROL AREAS	71
DIRECTORY OF ORGANISATIONS - GREAT BRITAIN	81
DIRECTORY OF ORGANISATIONS - OVERSEAS	93
GUIDE TO FILMS AND FILMSTRIPS	103
DIRECTORY OF CONSULTANTS	109
TRADE DIRECTORY AND BUYER'S GUIDE	
Alphabetical Entries	118
Classified Entries	132
ADVERTISERS	
Central Electricity Generating Board	117
Enviro Technology Services Ltd	135
Nairb Air Ltd	133
The Association of Noise Consultants	131
Vaisala (UK) Ltd	139

NATIONAL SOCIETY FOR CLEAN AIR

The Society's origins date back to the Coal Smoke Abatement Society (founded 1899); in the past decade it has considerably widened its interests and activities, and its work now covers the whole field of air pollution control and the problem of noise and its control. The NSCA has national and international standing; its influence and operation embrace industry, local and central government and the general public. It is concerned both with long-term policy questions and urgent current problems. The NSCA is a Founder Member of the worldwide International Union of Air Pollution Prevention Associations (IUAPPA) and an Associate Member of the International Union Against Noise.

THE NSCA's AIM is to secure environmental improvement through the reduction of air pollution, noise and other contaminants, while having due regard for other aspects of the environment. The NSCA advances the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention. The Society is funded by members' subscriptions, donations and monies raised by activities.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities, universities and other educational establishments, corporate bodies representing learned and professional institutions, the fuel industries, and other industrial companies.

PRINCIPAL ACTIVITIES INCLUDE: holding Conferences and Technical Training Workshops. Convening national and regional meetings and exhibitions. Making representations to government, other authorities and agencies and to industry, on all matters relating to air pollution and noise, including: legislation drafting, statutory controls, standards, technical concerns, local and national issues.

PROVISION OF INFORMATION FOR ENVIRONMENTAL EDUCATION The NSCA promotes public education at all levels. The approach is to stimulate interest in the environment by providing information that is accessible, balanced and up to date. The Society has its own press and publishes books, reports, papers, conference and technical proceedings, a range of leaflets on different topics, and the journal *Clean Air* (quarterly). The Society operates an Information Service and Library which handles thousands of requests for information, references and publications every year.

ORGANISATION The elected Council is the Society's governing body. An administrative staff headed by the Secretary General is employed at the Brighton Headquarters. The Society has 12 Divisions throughout the UK which arrange activities and meetings at regional level and consider issues from that perspective. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

POLICY DISCUSSION AND FORMULATION Policy discussion and formulation is initiated by NSCA Divisions and at the annual NSCA Conference as well as within the national Council. Policy details are evolved by the appropriate standing committee(s): Technical + Noise, and Parliamentary and Local Government; a Steering Committee reacts swiftly when urgent response is required. Policy is ratified by the Council.

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1981 COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION OF THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".
2. The registered office of the Society will be situate in England.
3. (1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.
- (2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.
- (B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.
- (C) To encourage the adoption of methods to reduce and prevent pollution.
- (D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.
- (E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society's objects.
- (F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.
- (G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.
- (H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.
- (I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
- (J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
- (K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
- (L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the

creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.

(M) To take all such other steps as will further the attainment of the above objects or any of them.

PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.

PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.

PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary of State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceed-

- ing 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolutions on 5 October 1981 and 1 October 1984.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.
Words importing the masculine gender only shall include the feminine gender and vice versa and
Words importing persons shall include corporations.
Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Society for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership:

Individual Members

(c) (i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-laws of the Society.

Local Authority Members

(d) (i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than five Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation *Local Authority* shall be deemed to include *Health Authorities* and *Water Authorities* or such other like authorities as the Council shall from time to time admit for membership.

Corporate Members

(e) (i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but if it desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

Sustaining Members

(f) Any member who subscribes not less than the sum as prescribed in the Bye-laws for this class of membership shall be eligible for admission as a Sustaining Member.

Honorary Members

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

Student Members

(h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

Application for Membership

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

Resignation of Members

(j) (i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

(a) whose annual subscription has remained unpaid for two successive years, or

(b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or

(c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

Annual Subscriptions

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETING

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings other than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental omissions to give notice of a meeting to, or the non-receipt of such notice by, any

person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:

(a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.

(b) Appointing Auditors and fixing their remuneration.

(c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if

any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a single term of three years

(c) Vice-Presidents shall not exceed nine in number nor more than three be elected annually.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term *National or similar organisation* shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:

- (a) If he ceased to be a member or a Representative of a member of the Society;
- (b) If by notice in writing to the Society he resigns his office;
- (c) If a receiving order is made against him or he makes any arrangement or composition with his creditors;
- (d) If he becomes of unsound mind;
- (e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
- (f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36.(i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation of the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before

the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

- (a) As to entrance fees (if any) payable in respect of membership of the Society.
- (b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
- (c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
- (d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
- (e) As to the manner in which the Elections of Officers and Council members shall be conducted.
- (f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37.(i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In cases of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be

present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provisions of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superseded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Ordinary Resolution dated the 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980, 5 October 1981, 18 October 1982, 31 October 1983, 1 October 1984 and 14 October 1985.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

- (i) The annual subscription payable by an Individual Member shall be not less than Ten Pounds. On attainment of the age of 65 on payment of the sum of Twenty Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.
- (ii) Individuals may on payment of not less than two hundred pounds become Life Members of the Society.

(b) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£137.00
100,001 to 250,000	£167.00
250,001 to 500,000	£203.00
500,001 to 1,000,000	£266.00
For each additional 500,000 or part thereof	— £27.00

- (c) Corporate Members and unincorporated bodies appointed in accordance with Article 4(e)(ii). The annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:
- (i) Small local civic societies, colleges, schools and similar organisations – £17.00
 - (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms – £97.00
 - (iii) Industrial organisations – £137.00
- (d) **Sustaining Members**
The annual subscription for Sustaining Members shall be not less than £200.00.
- (e) **Membership – Special Cases**
The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3(a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) Corporate Members

- (i) Corporate Members paying a subscription of £17.00 per annum shall each be entitled to appoint one representative
- (ii) Corporate Members paying a subscription of £97.00 per annum shall each be entitled to appoint three representatives
- (iii) Corporate Members paying a subscription of £137.00 or more per annum shall each be entitled to appoint five representatives
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as Officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members Handbook of the Society;
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. **Scotland**
2. **Northern Ireland**
3. **Northern:** Cleveland, Cumbria (in part, only – Allerdale District Council, City of Carlisle and Eden District Council) Durham, Northumberland, Tyne and Wear.
4. **North West:** Cheshire; Clwydd; Cumbria (in part, only – Barrow-in-Furness Borough Council, Copeland District Council and South Lakeland District Council);, Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. **Yorkshire and Humberside:** Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. **West Midlands:** Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. **East Midlands:** Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.

8. **Eastern:** Essex, Norfolk, Suffolk.
 9. **London and South East:** East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
 10. **Central Southern:** Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
 11. **South West:** Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
 12. **South and Mid Wales:** Wales except for Clwyd and Gwynedd.
- (b) Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.
 - (c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.
 - (d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

- 6(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.
- (b) Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.
- (c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

- 7(a) The business of the Society shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.
- (b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen and the following Committees:
 - (i) Finance and Administration
 - (ii) Conference and Promotions
 - (iii) Technical
 - (iv) Parliamentary and Local Government
 - (v) Any other Committee considered by the Council to be necessary.
- (c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:
 1. To implement Council policy
 2. To ensure that the programme of the Standing Committees are comprehensive and appropriately interlocking
 3. To formulate proposals for policy changes
 4. To act on behalf of the Council in cases of urgency
 5. To report to the next following meeting of Council any action taken on its behalf.
- (d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.
- (e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the office of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President:	Councillor L. Poole, BEM, JP
Immediate Past President:	Professor D.G.T. Williams, MA, LLB
Vice Presidents:	A. Archer, MBE; S.E. Cohen, CBE, FRSA; K. Collins, MEP; The Rt. Hon. The Earl of Cranbrook; D.F. Haynes, MP; Sir Hugh Rossi, MP; M.R. Seligman, MEP, BA; G. Wardell, MP;
Hon. Treasurer:	B.H. Edwick
Chairman of Council:	R.W.C. Wheatley
Deputy Chairmen:	I.W. Barker K.S. Dunn
Immediate Past Chairman:	M. Beaumont

PAST PRESIDENTS: Dr. H.A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F.E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE; Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE; Sir Alan Wilson, FRS; Sir John Charrington; Sir Kenneth Hutchison, CBE, FRS; Mr. Stanley E. Cohen, CBE; Sir John Greenborough, KBE; Professor P.J. Lawther, CBE; Lord Flowers, FRS; Lord Ezra, MBE; Naomi E.S. Sargent; Professor D.G.T. Williams, MA, LLB.

THE COUNCIL OF THE SOCIETY

Elected Divisional Representatives:

Scotland:	E. Gibson
Northern Ireland	O. Hetherington
Northern	Cllr. L. Poole, W.C.B. Robson, Cllr. T.W. Yellowley
North West	M. Dickinson, W.D. Gartside, D. Horner, I.R. Liversidge, J.B. Marsh, W.F. Snow
Yorkshire & Humberside	I.W. Barker, G.W. Kay, Cllr. R.J. McElvenney, G.T. Phillips
West Midlands	Cllr. J.R. Griffiths, Cllr. T. Short, T. Townsend
East Midlands	Cllr. R.S. Chamberlain, K.R. Enderby, D.F. Haynes, Cllr. Mrs. E.J. Inglefield
London & South East	Dr. D. Ball, J.J. Beagle, M. Beaumont, J. Clancey, P. Cooney, H. Giblin, Mrs. G.E. Naylor, Dr. M.J.R. Schwar, Professor R.S. Scorer

Officer) in 1965 and has been employed at West Bromwich, Gosport and Cambridge. He is currently the Borough Environmental Health Officer of Slough.

KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He is City Environmental Health Officer, Peterborough City Council, and has been the representative of Peterborough City Council to the NSCA for over 20 years, and a member of the East Midlands Division for 17 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference and Promotions Committee since 1974.

JOHN R.P. EVANS, ACP, MBIM, LRSC, M Ed, is Chairman of the South and Mid Wales Division, NSCA and is a member of the Technical Committee. As a Chemistry graduate, he has worked as an industrial chemist with I.C.I. Fibres and the British Steel Corporation. He taught for several years, and is currently Warden of an Adult Education Centre. Mr. Evans was elected a Member of the Rhymney Valley D.C. in 1976 and is Chairman of the Public Works Committee and an Executive Member of the Labour Party (Wales).

WILLIAM D. GARTSIDE represents the North West Division, NSCA. He is currently Principal EHO (Pollution and Noise Control) with Rochdale MBC. After apprenticeship and several years in the building industry he qualified as a Public Health Inspector in 1957, Meat and Other Foods Inspector in 1958 and Smoke Inspector in 1959, subsequently being appointed as specialist pollution control officer with the former C.B. of Rochdale. He is a founder member of the Manchester Area Council for Clean Air and Noise Control and member of the noise advisory working group to that Council. Mr. Gartside is a member of the Society's Technical Committee.

HARRY GIBLIN represents the London and South East Division and is a Past Chairman of the Council of the Society. He has spent all his working life in the solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 - a post from which he retired in 1983 - and in this position helped Local Authorities in the implementation of their smoke control areas. Mr. Giblin has served on the Council since 1962. He was a long-standing member of the Parliamentary and Local Government Committee and now serves on the Finance and Administration Committee, of which

he was Chairman, 1980/1981.

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last seven years he has been a Member of the Scottish Division, NSCA, and for the last nine years, specialist Pollution Control Officer, City of Edinburgh District Council. Mr. Gibson serves on the Society's Conference and Promotions Committee.

CLLR. JOHN R.A. GRIFFITHS represents the West Midlands Division, NSCA, and is a member of the Parliamentary & Local Government Committee. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. For over 20 years he has been Senior Fire Control Operator for Hereford and Worcester Fire Brigade. He was first elected to Worcester City District Council in 1973 and re-elected in 1980. Cllr. Griffiths is Chairman of the Environmental Services Committee, Worcester City DC.

DAVID ANTHONY HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC.

J. OLIVER HETHERINGTON, BA, MIEH, MIOA, represents the Northern Ireland Division. He worked with Belfast City Council as an Environmental Health Officer from 1969 until 1985, being engaged first in general environmental health duties, but specialising after a number of years in pollution control duties, having responsibility ultimately for noise control in the city as a Principal Environmental Health Officer. He is now lecturing in Environmental Health at the University of Ulster, specialising in pollution studies.

DEREK R. HORNER, CEng, represents the North West Division, NSCA, and is a member of the Conference & Promotions Committee. Having gained an Hons. degree in Gas Engineering, he specialised in industrial gas applications before joining South East Gas as Commercial Sales Manager, and subsequently North West Gas. Mr. Horner is a Member of the Institute of Gas Engineering, a Member of the Institute of Energy, a Member of the Institute of Marketing and of the Chartered Institution of Building Services.

CLIFFORD GEORGE HOWELL represents the South West Division, NSCA, and serves on the Society's Conference and Promotions Committee. After appointments in London, Essex and Gloucestershire, he was

appointed Divisional Environmental Health Officer in charge of Industrial/Commercial/Clean Air and Noise Division of the Stroud District Council's Environmental Health Department. He is a Fellow of the Royal Society of Health and a Fellow of the Institute of Environmental Health Officers being past Chairman of the South West Centre Council and also the Gloucestershire Branch. He has written and presented a number of papers on Environmental Health and is a founder member and past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee. He is a Member of the Berkeley and Oldbury Nuclear Power Station's Local Liaison Committee, a Member of the Standing Conference of Co-operating Bodies on the investigation of air pollution and Chairman of the Environmental Control Committee for Gloucestershire.

CLLR. MRS. ELIZABETH JANE INGLEFIELD represents the East Midlands Division, NSCA, and is Deputy Chairman of the Parliamentary and Local Government Committee; she has been a member of the Divisional Council of the East Midlands for the past 10 years and is the Chairman of Housing for High Peak Borough Council. She is a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. Mrs. Inglefield is currently working for the Marie Curie Memorial Foundation as the Regional Co-ordinator of Day and Night Nursing Services for Trent Region.

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise, toxic waste disposal, etc. He is a Past Chairman of the Gwent Branch of the Institution of Environmental Health Officers and currently the appointed Hon. Secretary of the South and Mid Wales Division, NSCA.

GERALD W. KAY represents the Yorkshire & Humberside Division, NSCA. He entered local government with Keighley Borough Council in 1947, where he was Public Health Inspector from 1954 - 1957. Subsequent appointments were with Beverley Borough Council and Doncaster Rural District Council, where Mr. Kay was Deputy Chief Public Health Inspector from 1964 to 1974. In 1974 he joined Doncaster MBC and was appointed Chief Environmental Health Officer in April 1983.

R.W. (BOB) LANDER, FIEH, FRSH, M Inst WM, represents the Institution of Environmental Health Officers, and serves on the Society's Parliamentary & Local Government Committee. He is Chief

Environmental Health Officer to Middlesbrough Borough Council. He currently serves on the Northern Divisional Council of the Society, and previously served on the East Midlands Divisional Council. He is a Fellow of the Royal Society of Health; a Fellow and Member of the General Council of the Institution of Environmental Health Officers; a Member of the Institute of Wastes Management and he is a North East Centre Council Member of this Institute; an EHO adviser to the Association of District Councils and represents this body on the Health and Safety Executive/Local Authority Liaison (HELA) Committee; and is Chairman of the Training Sub-Committee and Local Authorities Co-ordinating Body on Trading Standards (LACOTS).

IAN R. LIVERSIDGE, FRSH, MIEH, represents the North West Division NSCA, and serves on the Finance & Administration Committee. Employed by Bolton MBC, he is the Council's Chief Officer in charge of the Environmental Health Division. He is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough continues to progress a phased programme of domestic smoke control and £84,000 is annually allocated to this work. Considerable emphasis is placed on pollution prevention by the use of planning power. Mr. Liversidge operates an Industrial Liaison Committee, which combines the talents of local industry and the Council and this body evaluates and tries to ameliorate the problems of local industry as a polluter. Within the boundaries of the authority is one of the largest and most modern motive power battery manufacturers, which is the subject of a continuous monitoring programme, and which achieves high control standards with minimal impact on the surrounding environment.

IAN MACKAY represents the Solid Smokeless Fuels Federation and is a member of the Parliamentary & Local Government Committee. Having joined the National Coal Board in 1948, he served in various departments, particularly marketing, and became District Sales Manager for Teeside. In 1970, he joined Associated Heat Services Limited as Sales Manager and in 1982 was appointed General Manager designate for the Solid Smokeless Fuels Federation. He was Chairman of the North East Coal Industry Society in 1980. Mr. MacKay is an associate member of the Institute of Marketing.

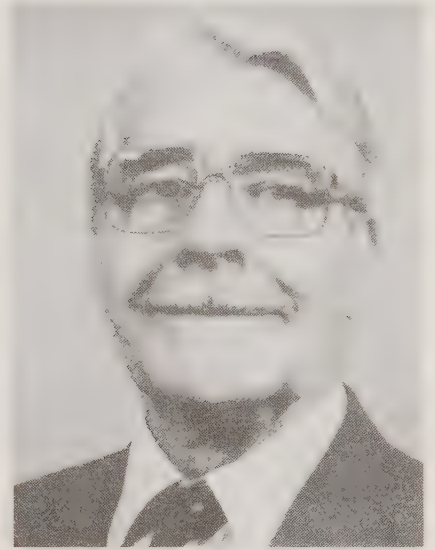
JOHN B. MARSH, FRSH, MIEH, represents the North West Division and is a member of the Parliamentary & Local Government Committee. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post-war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief



THE PRESIDENT



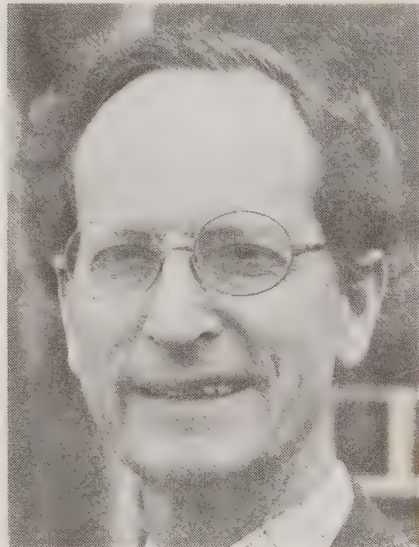
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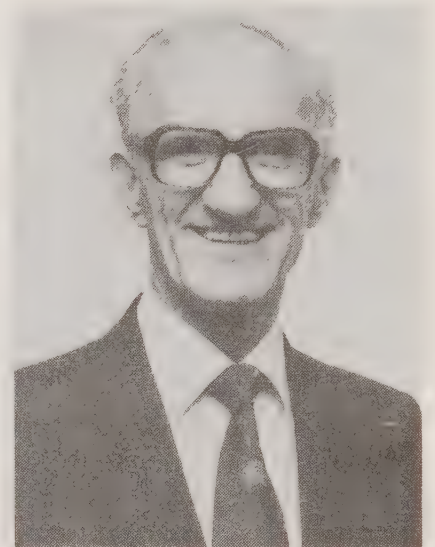
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S.E. COHEN



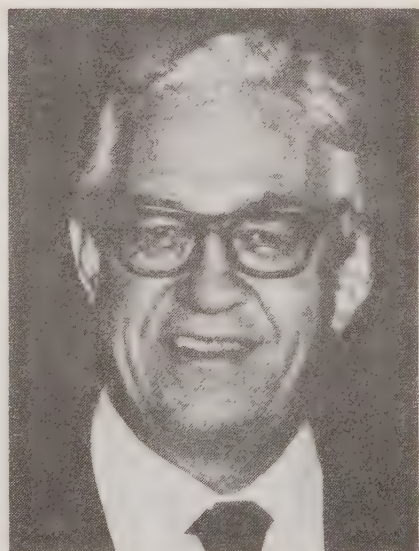
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F. HAYNES



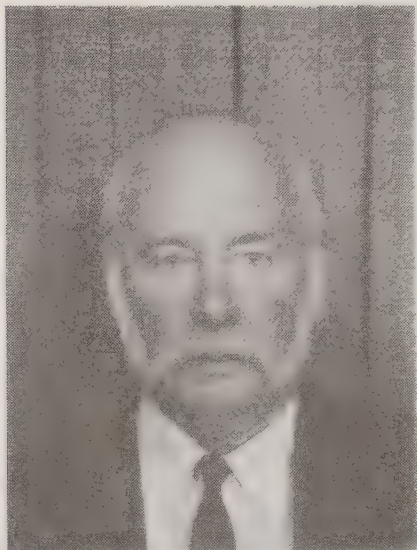
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M. SELIGMAN



R.W.C. WHEATLEY



M. BEAUMONT



I.W. BARKER



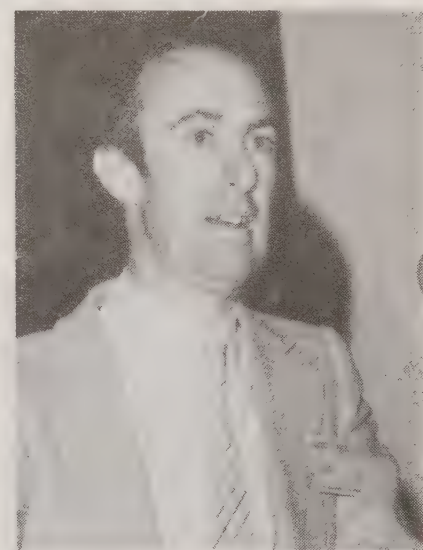
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B.H. EDWICK



DR. D. BALL



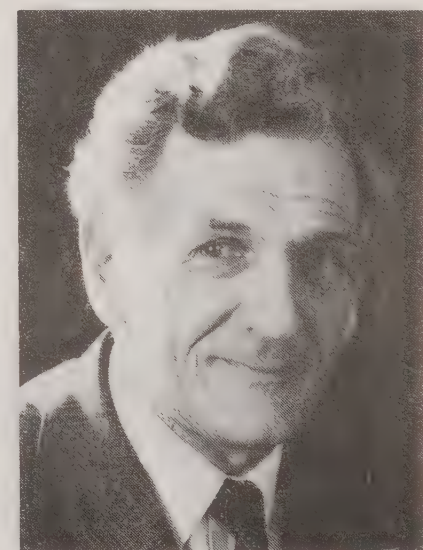
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J.J. BEAGLE



K. BRADBURY



R.S. CHAMBERLAIN



J. CLANCEY



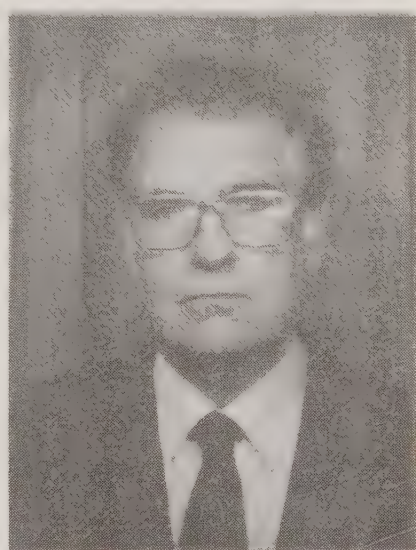
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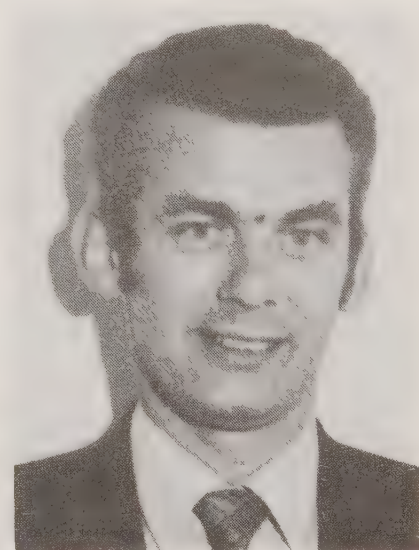
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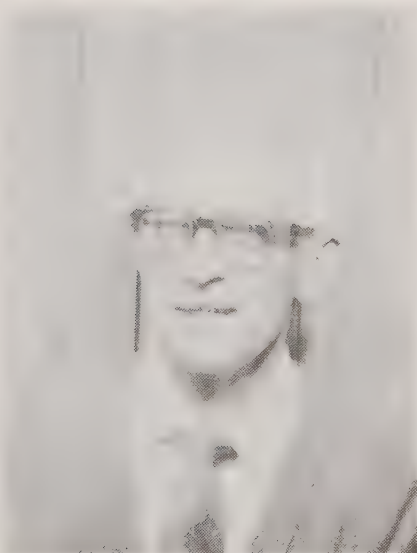
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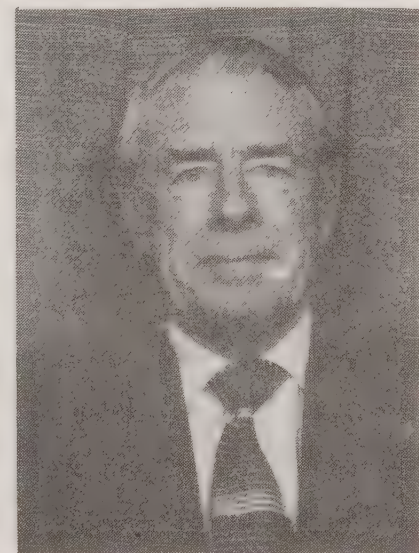
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K.R. ENDERBY



W.D. GARTSIDE



H. GIBLIN



J.R. GRIFFITHS



D.A. HARRISON



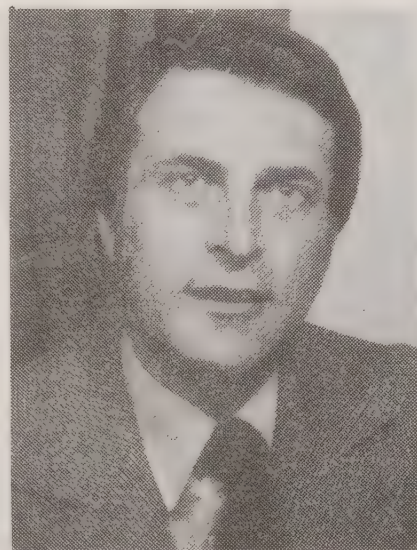
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C. HOWELL



E.J. INGLEFIELD



T. JONES



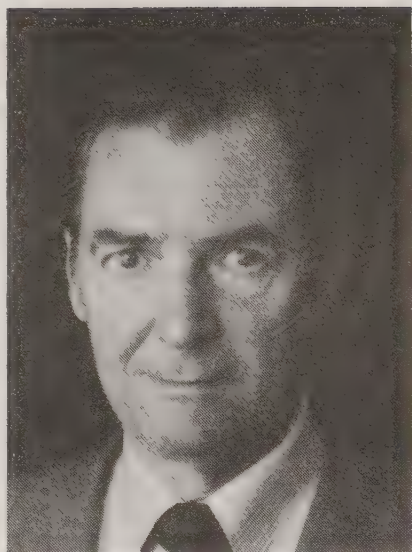
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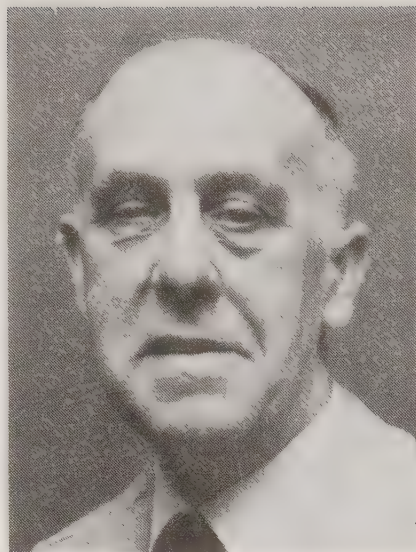
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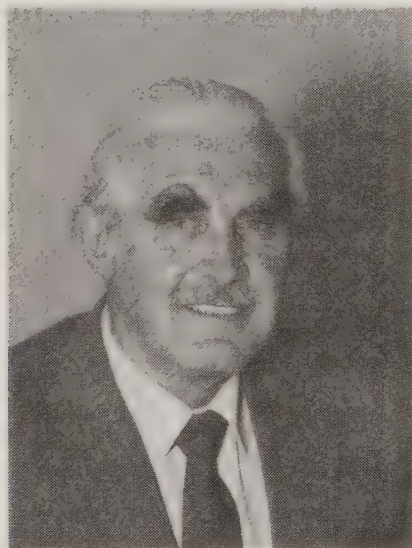
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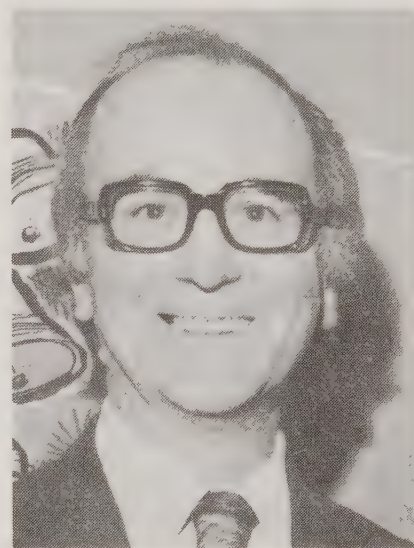
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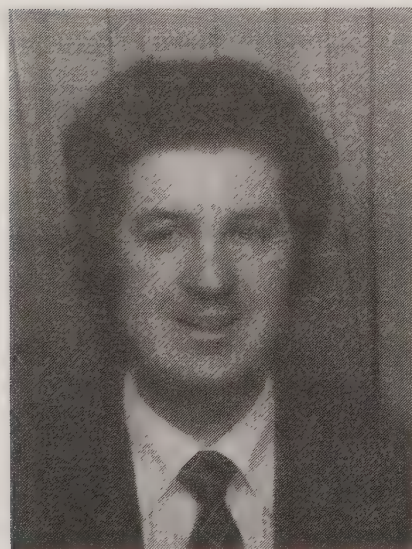
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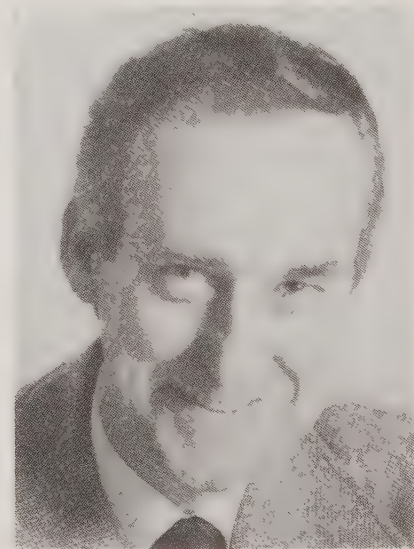
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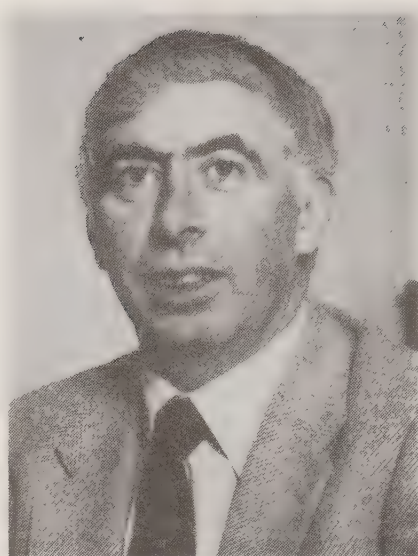
PROF. R.S. SCORER



DR. F.E. SHEPHARD



T. SHORT



W.F. SNOW



H.I. THOMAS



T. TOWNSEND



T.W. YELLOWLEY

ANNUAL REPORT AND ACCOUNTS

General Review

I am delighted to report that the year under review has been one of wide ranging activity and action throughout the Society. Internationally, nationally and locally the control of air pollution and noise keep their place in the forefront of politics — and this, in turn, has been reflected in the excellent levels of attendance at Divisional meetings as well as those of the Standing Committee and the Council. The annual Conference was a resounding success and the Spring Workshop proved one of the most interesting and important in recent years. Our voice has been heard in Westminster on many occasions, and regularly in the national and local media.

This resurgence of interest in the Society and its work, which has been noted by my predecessors in recent years, is readily explained by the concern for the environment shown by an ever more knowledgeable general public; but one which is nevertheless confused by the complexities of the problems posed and frustrated by the apparent lack of urgency on the part of Government in deploying the means to combat them. Indeed, in the light of their many recommendations rejected by Government, one may include among the list of the frustrated such august bodies as the Royal Commission on Environmental Pollution and select Committees of both Houses of Parliament! At the other extreme there is the anguish of Joan Bull plagued by the noise of the family upstairs and her husband John caught in the fumes of a three mile tail back on the motorway.

Last year my predecessor expressed our concern that the Government's overall co-ordination of policy on environmental pollution was wanting; that we lacked a national energy policy with priority given to clean air and environmental protection; that rather than taking the initiative, we

were letting the Commission in Brussels and our neighbours in Europe set the pace. These matters were discussed in depth during the Conference. While there are signs that the Government is beginning to devote a higher priority to the control of environmental pollution — for example, the Consultation Document on public access to information on environmental pollution has recently been circulated — on the other hand, the review of the clean air legislation promised in 1982 has yet to materialise.

The sorry saga of the Industrial Air Pollution Inspectorate continues to unfold. This is again symptomatic of the malaise now affecting our whole air pollution control system. In locating the Inspectorate within the Health and Safety Executive enforcement has become increasingly divorced from policy development and legislation and administration fragmented. Recent changes within HSE have weakened the traditional independence of the Inspectorate and the extensive reorganisation introduced with indecent haste on 1 July 1985, has effectively downgraded the Inspectorate merely to promote administrative convenience — with the result that the practice of good air pollution control evolved over 120 years is now seriously at risk. Members will not be surprised: this situation was forecast in 1976 by the RCEP when it urged that the Inspectorate should be returned to the DOE forthwith. It is high time therefore for the Secretaries of State for the Environment and Employment to stand back and take a hard look at the situation which has been allowed to develop within the HSE. The needs of the Environment and those who inhabit it are often quite separate from those of industry and its workers, and the return of the Inspectorate to DOE is the first essential step in salvaging our air pollution control system. From that logical base —

all other environmental Inspectorates are located within DOE — an effective management chain can be re-established and a strong policy unit created.

Smoke Control

Smoke control has continued to make reasonable progress, with most local authorities sharing the wisdom that clean air should logically be for all, not merely for a limited section of the community. However, there are clearly still problems in the way of completion of smoke control in some areas where it is needed; and where local authorities have found it difficult to gain public acceptance for smoke control, restraints on spending have aggravated the situation. Enforcement remains a problem and matters were not helped by suspension of a few smoke control orders during the period of the miners' strike. Overall, it cannot be assumed that the miners' strike was necessarily detrimental to air quality: in terms of total volume, far less bituminous coal was burnt than normal and while smokeless fuel supplies were sometimes scanty, there was usually one type available within a particular product group.

NSCA POLICY

Straw and Stubble Burning

The NSCA conducted a highly effective nationwide survey of straw and stubble burning during the 1984 harvest season. The survey, published as a special report, covered more than 260 local authorities and provided ample evidence to justify the Society's call for a ban on the practice. The report was widely distributed, copies being sent with suitable representations to Government Ministers, MPs and Members of the House of Lords. The survey showed greatly increased support among local authorities for a ban: from 65 in 1983/4, the number grew to 144 in 1984/85. An Early Day Motion urging Government to take note of the NSCA's report and act on

its recommendations was tabled by Dr. David Clark, MP, and attracted over 100 MPs' signatures. The NSCA's campaign has been strengthened during the year by the efforts of other national organisations which have joined the Society in calling for a ban to be implemented by the end of the decade.

Aerial Crop Spraying

Following a motion at the 1984 Conference, the NSCA resolved that the public is inadequately protected from vapour drift caused by aerial spraying. Having monitored the progress of the Food and Environment Protection Bill through the House of Lords, the Society wrote to Agriculture Ministers asking for clarification of powers under the Bill to control aerial spraying and seeking reassurance on validation of pesticides safety data. As the Bill went to the Commons, the Society put its views direct to MPs and, along with several other national organisations, organised support for an Early Day Motion calling for tighter controls on aerial spraying and for local authorities to be given an effective enforcement role.

Control of Noise from Motor Cycles

In written and oral evidence to the House of Lords, the Society pressed home its case that the problem of motorcycle noise should be tackled with vigorous emphasis on the maintenance in use of the technical standards achieved at some expense by motorcycle manufacturers. The NSCA stated that police powers to deal with faulty or illegal silencers must be strengthened and suggested a simple static test which could be used to discourage "noisy" riding or tampering with exhaust systems. The House of Lords Select Committee on the European Communities Report expressed strong agreement with the NSCA's views, recommending investigation of noise traps to make random testing possible.

Acid Deposition

The Society's policy statement on acid deposition (acid rain) has been restated after lengthy and careful debate, and published following approval by Council at its meeting last month. Of course, the acid rain story will continue to unfold as the science is better understood and the technological means of control further developed. In the circumstances there is no such thing as a last word on the subject: in the meantime, we confidently commend the statement to all those who may be interested.

Other issues resulting in policy statements or requiring further action included: EC proposals on lead and gaseous emissions from cars; the duty imposed by HM Customs and Excise on solvents which would otherwise be lost to the atmosphere but are recycled to refuel the recovery process; and a Code of Practice relating to noise from watersport activities.

Liaison

Turning to our relationships with other organisations, the Society continues to enjoy extensive representation on the Standing Conference of Co-operating Bodies. We continue to be represented on: the Council for Environmental Conservation (CoEnCo) and its Committees; the Parliamentary and Scientific Committee; and on Committees of the Combined Heat and Power Association. The Society is also represented in the Energy Industries Club. We continue to provide secretarial services for the Environmental Protection Equipment Manufacturers Association (EPEMA) and, as a new venture this year, are providing secretarial services for the International Committee on Industrial Chimneys (CICIND) – which promotes knowledge about the design, construction and use of chimneys and the harmonisation of national design codes.

IUAPPA

As you will know, the Society is a founder member of the International Union of Air Pollution Prevention Associations (IUAPPA) for which we also provide the secretariat, publishing the *IUAPPA Newsletter* and the *IUAPPA Handbook*. The Association continues to grow and now comprises 19 members and 8 observers representing 29 countries. As a member of the International Union of Technical Associations (UITA) the Union achieves close links with many United Nations organisations and other international bodies. The Union also keeps in touch with the Commission of European Communities.

Last October we hosted the Executive Committee of the Union when it met in Brighton in conjunction with the Annual Conference. This year the Committee meets in Tokyo in early October. Matters on the Agenda will include: the next World Congress which, under the auspices of the Clean Air Society of Australia and New Zealand (CASANZ), foregathers in the Sydney Opera House on 25th August 1986; and the preliminary arrangements for the 8th World Congress which will convene at The Hague in 1989. I am pleased to say that some 15 papers have been submitted from the UK for presentation in Sydney and I am hopeful that, despite the distance, the Society will be well represented both on the rostrum and on the floor. I am looking forward to attending this meeting.

AICB

The Society also maintains associate membership of the Association International Contre le Bruit (AICB). This Association meets in formal session only every second year.

Divisional Activities

With regard to our own affairs, I have already mentioned the activities of the Divisions in promoting the work of the Society. With a few exceptions, attendance at meetings has been very good. In June I was greatly privileged to attend the North West Division Symposium "Acid Rain 1985 Update" held at Haydock Park Racecourse, St. Helens. The full report on this extremely successful Seminar has been published in *Clean Air* but an attendance of over 120 speaks for itself. A number of Divisions have held special sessions on such topics as acid rain, straw burning and crop spraying. Others continue their practice of combining meetings with visits. Inevitably there is insufficient space to mention all the smaller meetings and visits arranged by the Divisions but I would particularly like to thank all those who invited me to attend Annual General Meetings — all of which I hugely enjoyed — and apologise for those which I was unable to attend because of conflicting engagements.

Spring Workshop

The Spring Workshop entitled "Towards Air Quality Management" was held at Warwick University in March. Monitoring and modelling techniques and their use in air quality management and in the contexts of international concern about acid rain and more local strategic planning needs, were discussed by 86 delegates and speakers. A number of computer models were demonstrated in the accompanying exhibition and we were also indebted to the CEEB, Warren Spring Laboratory and the Esso Research Centre for demonstrating their mobile laboratories — possibly the first time all three vehicles have been seen together. This Workshop, which was fully reported in *Clean Air*, produced an outstanding series of papers and discussions making it a considerable success. I am pleased to say that it was also successful financially. Our next Workshop, to be

held at the University of Newcastle upon Tyne in 1986 from 25/27 March inclusive will take as its subject "Dealing with Asbestos — Policies for the Future".

51st Conference

Our 51st Clean Air Conference and Exhibition, held in Brighton in October, attracted a total attendance of 351 delegates — which showed a further welcome increase over recent years. The facilities of the Brighton Centre are all one could ask — being popular with delegates, speakers and staff alike. We were delighted to welcome Dr. Ken Sullivan, President of CASANZ, to give the opening Address, and to enjoy the company of our President, Professor David Williams and no less than three Vice-Presidents during several of the Sessions. We were also pleased that so many of our IUAPPA colleagues were able to participate in various Sessions of the Conference.

Presidential and Vice-Presidential Matters

During his second year in office, our President has been active both in public and behind the scenes in promoting the affairs of the Society. Importantly he has drawn to the attention of the Government our concern that the integrity of the GLC Scientific Services Branch should be preserved following the disbandment of the Greater London Council and also our continuing and ever deepening concern that the Industrial Air Pollution Inspectorate should be returned to the Department of the Environment while its identity remains intact. Unfortunately, Professor David Williams is unable to be present at the forthcoming AGM when he was anticipating handing over the Chain of Office to our President Elect, Cllr. Len Poole, BEM, JP: he is in Australia on sabbatical as a Visiting Professorial Fellow to the Sydney Law School. Throughout his time in office David and his wife Sally have been

an immensely popular and effective "Presidential team": on behalf of you all I would like to thank them for the wonderful support they have given the Society and wish them all the very best for the future.

Our President Elect needs no introduction by me. Cllr. Len Poole has been well known throughout the Society for very many years and, of course, it was only two years ago that he was elected Chairman of Council. As an elected representative for over 28 years Len Poole's knowledge of the local authority aspects of air pollution control is second to none. As Chairman of the Middlesbrough Environmental Health Committee and of the Boroughs of Cleveland Pollution Control Group he has played a unique part in the long term campaign culminating in the clean air which the citizens throughout Teesside now take for granted. We look forward to his Presidency with the very greatest of pleasure.

I would also like to thank the Vice-Presidents for their good offices on our behalf. Mr. Stanley Cohen, CBE, who has been active in several ways behind the scenes while Mr. Madron Seligman, MEP, BA has ensured our link with the European Parliament. Following the invitations of the Nominations Committee Mr. Ken Collins, MEP, Sir Hugh Rossi, Kt, MP and Mr. Gareth Wardell, MP have agreed to stand for election while Mr. A. (Mick) Archer, MBE, The Rt. Hon. The Earl of Cranbrook and Mr. Frank Haynes, MP continue in the office. After three years The Rt. Hon. Michael Foot, MP is routinely standing down: we are most grateful to him for the interest he has taken in the Society policies.

The Council and its Committees

As you will have gathered from my opening words, the Council and its Committees have had another busy year, and I would like to take this opportunity of thanking

all members of Council and all members of the Standing Committees for their essential support and attendance. I am also most grateful to them for their willingness in meeting our day-to-day requests for help. Without the latter the staff would be hard pressed indeed to keep abreast of Society business.

As you may imagine, the Technical Committee has addressed a wide variety of issues most of which are of long standing concern. In particular the Acid Rain Sub-Group has met on four occasions in progressing drafts of our revised policy statement on "Acid Rain" and culminating in an extraordinary meeting of the Technical Committee to approve the final version for presentation to Council in September.

While I would not suggest that we should attempt to put a price on either this or any of the other outputs from our Committees it is, nevertheless, one of our outstanding strengths that we have at our disposal the willing services of so much high priced help!

The Parliamentary and Local Government Committee have also been extremely active, sometimes working in conjunction with the Technical Committee but more often on specialist matters appropriate to its remit. So that members may be kept in touch with the work of the both of these committees their deliberations are comprehensively minuted and circulated to the Honorary Secretaries — thus stimulating debate throughout the Society. All policy developments are full reported in *Clean Air*.

The Noise Committee deserves special mention. Just one year since it first met, this Committee has established a reputation and status of national importance. Enthusiastic and vigorous, and with a membership coming from widely differing backgrounds, it first

decided on programmes of work for the immediate and longer terms including; noise in flat conversions; noise abatement zones; testing of in use road vehicles; noise from motor cycles; and public education in noise matters. The Committee has given written and oral evidence to the House of Lords on motorcycle noise which in turn gave eloquent testimony to the success of the Committee in accepting so many of its recommendations.

The Conference and Promotions Committee has, in addition to the meetings already mentioned, organised the 52nd Clean Air Conference at Scarborough and completed outline planning for the Spring Workshop at the University of Newcastle upon Tyne.

Publications

The completely revised 1985 edition of the *Reference Book* and a separate *Environmental Glossary* were published at the beginning of 1985. These important publications provide a first class resume of the law and practice relating to air pollution, water management, waste management and noise control in the UK, and they have been adopted by the Open University as a standard text for the T234 course. The publications have already proved a tremendous success with sales now approaching 1,000 and copies circulating worldwide. The 1986 edition is in the course of printing. We confidently anticipate that it will successfully meet a continuing and a growing demand. Other publications included the report of the Society's survey on the 1984 Straw Burn; a leaflet on the law entitled "Air Pollution — Know Your Rights" and a leaflet on "Acid Rain". The Society's other publications, including the booklets "Noise and Society" and "Pollution" have continued to sell well as have all the other specialist leaflets, which were revised in the course of the year. Finally, *Clean Air* and the *Members Handbook* have

continued to be published.

Information and Publicity

The library and information department has once again handled thousands of requests for information, references and publications in the course of the year. In many cases the Society's leaflets provide a full response to such requests. However, more detailed requests for information, or for help with particular problems, are answered with specific letters and/or research material from the Society's library. Telephone enquiries or requests for library loans from members are answered with on the spot advice or by return of post.

NSCA members and staff have fulfilled local speaking engagements on air pollution, noise and related subjects. Press and media coverage of the Society's views and activities has increased; coverage was especially good in connection with the Society's campaigns on noise in flat conversions, aerial crop spraying and pollution caused by straw burning. These and other topics have led to television appearances, local and national broadcasts, and coverage in both the local and national press.

Visitors

Last November, senior scientists and pollution control officials from Beijing Province, People's Republic of China, spent a one-day visit to the Society's offices discussing UK pollution control legislation, administration, and the role of the NSCA. In January a one day visit to the Society's offices was organised through the British Council for a group of high ranking Indian officials. These visitors, who were the heads of various state environmental pollution control boards, were interested in the role of non-governmental bodies in pollution control, and, specifically, in the work and publications of the NSCA.

Naturally, all such visitors are welcomed as the guests of the Society.

Finance

Finally, I must report that the Finance and Administration Committee has been duly concerned with the continuing problems of budget and finance. As you will see in the note by the Honorary Treasurer circulated with this report, the anticipated deficit forecast by last year's budget turned into a welcome surplus — largely because of the good attendance at Conference, increased sales of publications and the benefit of a substantially reduced rent. However, the factors underlying last year's projected deficit remain — including a long anticipated and not unreasonable ten-fold increase in rent which has up till now remained unchanged since 1969. If you are visiting Brighton and can spare the time, please do not hesitate to visit the headquarters.

Concluding Remarks

On behalf of members of the Society, I should like to thank the Secretary General and all the members of our headquarters staff for their eminently successful and loyal efforts on our behalf. I would also like to express my appreciation to the Honorary Secretaries of all the Divisions for their vital contributions in sustaining the work of the Society: without the interest, hard work and the time they so willingly devote to their duties, the Society would quickly lose its character and effectiveness.

In conclusion, I would repeat that despite another year of unremitting activity, we are still nowhere near achieving our goals. To this end we must ensure that the Society remains vigorous and viable. In wishing my successor the best of good fortune in piloting us through the coming year, I would assure him that he will find it a thoroughly rewarding and enjoyable appointment. I count it a privilege to have been able to serve the Society in this way.

Max Beaumont
Chairman of Council

THE NATIONAL SOCIETY FOR CLEAN AIR
(Company Limited by Guarantee – Incorporated 1st January 1958)

BALANCE SHEET**31st MARCH 1985**

	<i>Notes</i>	1985	1984
		£	£
TANGIBLE FIXED ASSETS			
Office furniture and equipment	2 & 3		
Cost or valuation		18,527	14,548
Accumulated depreciation		(14,225)	(13,859)
		<u>4,302</u>	<u>689</u>
Library books at nominal value		100	100
		<u>4,402</u>	<u>789</u>
CURRENT ASSETS			
Sundry debtors		4,244	2,425
Prepayments		347	167
		<u>4,591</u>	<u>2,592</u>
Stock of publications	2	5,590	1,700
Quoted investments	4	33,584	13,610
Bank balances		35,347	57,228
Cash in hand		67	36
Funds held by divisions		1,542	1,584
		<u>80,721</u>	<u>76,750</u>
CREDITORS: amounts falling due within one year:			
Sundry creditors and accrued expenses		(8,865)	(12,038)
NET CURRENT ASSETS		<u>71,856</u>	<u>64,712</u>
TOTAL ASSETS LESS CURRENT LIABILITIES		<u>£76,258</u>	<u>£65,501</u>
GENERAL FUND			
Balance at start of year		51,923	47,084
Surplus for the year		5,757	4,839
Balance at end of year		<u>57,680</u>	<u>51,923</u>
PREMISES FUND		<u>18,578</u>	<u>13,578</u>
		<u>£76,258</u>	<u>£65,501</u>

The accounts were approved by the Council of the Society on 5 September 1985 and signed on its behalf by:

B.H. Edwick – *Honorary Treasurer*

Air Commodore J. Langston – *Secretary General*

INCOME AND EXPENDITURE ACCOUNT for the year ended 31st MARCH 1985

	Notes	1985 £	1984 £
INCOME			
Subscriptions and donations	2	51,822	49,501
Conference, Brighton October 1984		28,394	-
Conference, Torquay October 1983		-	23,816
Workshop, Warwick March 1985		6,832	-
Workshop, Oxford March 1984		-	6,714
Sales of publications		13,612	8,177
Advertising revenue			
Clean Air		568	987
Members' Handbook		943	93
		1,511	1,080
Investment income: Dividends		3,890	2,824
Interest		5,496	5,574
		9,386	8,398
Contributions from IUAPPA/EPEMA		6,822	6,724
Profit on sale of office equipment		100	-
		118,479	104,410
EXPENDITURE			
Staff costs:			
Salaries and wages		46,429	44,458
Social Security costs		4,895	4,650
		51,324	49,108
Other costs:			
Sub-contract printing		6,265	4,941
Rent, rates, light and heat	5	3,433	3,410
Insurance, travel, cleaning and general expenses		12,276	12,804
Audit fee and financial advice		854	600
Depreciation –			
office furniture and equipment	2 & 3	1,471	1,033
Stationery and supplies		1,315	1,308
Provision for doubtful debts		(4)	(6)
Irrecoverable VAT input tax	6	2,377	1,622
		79,311	74,820
“Clean Air” and Members' Handbook		7,249	4,636
Information and Publicity Services		2,744	2,385
Cost of publications		3,376	2,435
Divisional expenses		1,092	644
		14,461	10,100
Conference, Brighton October 1984		10,328	-
Conference, Torquay October 1983		-	11,034
Workshop, Warwick March 1985		3,622	-
Workshop, Oxford March 1984		-	3,617
		13,950	14,651
		(107,722)	(99,571)
Surplus for the year		10,757	4,839
Transfer to Premises Fund		(5,000)	-
Transfer to General Fund		£5,757	£4,839

The notes on page 51 form part of these accounts

STATEMENT OF SOURCE AND APPLICATION OF FUNDS for the year ended 31st MARCH 1985

	1985	1984
	£	£
SOURCE OF FUNDS		
Surplus for the year	10,757	4,839
Adjustment for item not involving the movement of funds:		
Depreciation	<u>1,471</u>	<u>1,033</u>
	<u>£12,228</u>	<u>£5,872</u>
APPLICATION OF FUNDS		
Purchase of tangible fixed assets	5,084	113
Change in net current assets:		
Increase (decrease) in debtors and prepayments	1,999	(619)
Increase in stock of publications	3,890	25
Increase in quoted investments	19,974	-
(Decrease) increase in funds held by divisions	(42)	505
Decrease in creditors and accruals	3,173	1,768
Decrease in deferred income	-	335
(Decrease) increase in bank and cash balances	<u>(21,850)</u>	<u>3,745</u>
Total funds applied	<u>£12,228</u>	<u>£5,872</u>

The notes on page 51 form part of these accounts

REPORT OF THE AUDITORS TO THE MEMBERS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have audited the financial statements set out on pages 10 to 13 in accordance with approved Auditing Standards.

In our opinion the financial statements, which have been prepared under the historical cost convention, give a true and fair view of the state of affairs of the Society at 31st March 1985 and of its surplus of income over expenditure for the year ended on that date, and comply with the Companies Act 1985.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

City Gate House
39/45 Finsbury Square
LONDON EC2A 1AE

9 September 1985

NOTES TO THE ACCOUNTS for the year ended 31st MARCH 1985

1. LIABILITY OF MEMBERS

In accordance with clause 8 of the Memorandum of Association every member of the Society undertakes to contribute, in the event of the Society being wound up, such amount as may be required not exceeding 25 pence each.

2. ACCOUNTING POLICIES

a) Basis of accounting

The accounts are prepared in accordance with the historical cost convention.

b) Subscriptions

Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate.

c) Depreciation of tangible fixed assets

The cost of items of office furniture and equipment is written off by equal annual instalments over five years.

d) Stock of publications

Stock of publications are included at the lower of the Secretary General's valuation and net realisable value.

3. OFFICE FURNITURE AND EQUIPMENT

	Cost or valuation £	Accumulated depreciation £
at 1.4.1984	14,548	13,859
Additions	5,084	1,471
Disposals	(1,105)	(1,105)
at 31.3.85	<u>£18,527</u>	<u>£14,225</u>

Records are not available which show the original cost of items of furniture and equipment which were valued by the Secretary General as at 1.4.1972 at £1,910 and were included in the accounts at this figure, which is now fully depreciated.

Subsequent additions, for which records are available, are included at cost.

4. QUOTED INVESTMENTS

	Cost		Market value	
	1985 £	1984 £	1985 £	1984 £
Fixed interest stocks	11,438	3,270	10,388	2,183
Ordinary shares	<u>22,146</u>	<u>10,340</u>	<u>57,933</u>	<u>38,553</u>
	<u>£33,584</u>	<u>£13,610</u>	<u>£68,321</u>	<u>£40,736</u>

5. PREMISES

The lease on the Society's Brighton offices expired on 14th November 1979. The Society has continued to occupy the premises at the same rent from that date.

6. IRRECOVERABLE VAT INPUT TAX

The Society has been advised that it can only recover part of the VAT input tax paid. The charge of £2,377 is the amount of irrecoverable VAT written off in 1984/85.

7. TAXATION

As a registered charity the Society is not liable to tax on its income.

DIVISIONAL MEMBERSHIP & REPORTS

DIVISION ONE

SCOTTISH DIVISION

Hon. Secretary: F.J. Feeley,
c/o The Building & Works Department,
City of Glasgow DC,
266 George Street,
Glasgow.

No report received.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Glasgow, City of
National Coal Board
Scottish Gas

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Hamilton District Council
Inverclyde District Council
Monklands District Council
Motherwell District Council
Renfrew District Council

CORPORATE MEMBERS

British Steel Corporation
(Scottish Division)
Greater Glasgow Health Board
Lothian Health Board

INDIVIDUAL MEMBERS

Anderson, R.P.
Blair, J.A.
Bulcraig, Dr. W.R.*
Cannayan, Mrs . M.
Christie, J.H.
Dunlop, W.A.
Foreman, J.*
Jackson, J.
MacPherson, I.
McGhie, J.R.*
Ramsey, Captain E.C.

DIVISION TWO

NORTHERN IRELAND DIVISION

Chairman: Cllr. Mrs. D. Dunlop
Hon. Secretary: J.O. Hetherington,
15 Casaealdona Rise,
Belfast BT6 9RA

A meeting of the Division was held on 29 November, 1984 at the Offices of the Newtownabbey Borough Council in Ballyclare. The attendance was very encouraging with 63 delegates from Local Authorities, Area Health Boards and the various fuel interests.

Mr. Ian MacKay of the Solid Smokeless Fuels Federation spoke first

on the contribution which solid smokeless fuel has made and is making to reduce air pollution in Britain and then introduced an audio/visual presentation outlining the benefits of using solid smokeless fuels for domestic heating. Following the presentation a panel consisting of Mr. MacKay, Mr. B.P. Hanna, Director of Environmental Health Services, Belfast, and Mr. D. Barrett, Director, Coal Advisory Service for Northern Ireland, answered questions from the floor.

One very interesting topic which arose during the discussion was the possible problems associated with the burning of lignite. Deposits of coal in Northern Ireland are almost non-existent, but a very large seam of lignite has recently been discovered in the Lough Neagh Basin. The economic advantages to the province will be apparent but it will be extremely important to ensure that emissions from for example, the planned new power station at the mine, are acceptable.

The usual springtime meeting which normally includes the A.G.M. had to be postponed due to the Northern Ireland District Council elections and the election of officers will be held later in the year.

J.O. Hetherington
Hon. Secretary

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Belfast, City of
Carrickfergus District Council
Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council

Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtonabbey District Council

CORPORATE MEMBERS

Coal Advisory Service
Eastern Health & Social Services Board

INDIVIDUAL MEMBERS

Burke, V.I.
Hanna, B.P.

DIVISION THREE

NORTHERN DIVISION

Chairman: Cllr. L. Poole

Hon. Secretary: W.C.B. Robson,

Borough Environmental Health Officer,
Darlington Borough Council,
Town Hall,
Darlington DL1 5QU

The Northern Division has held three meetings in the year including the Annual General Meeting at Newcastle and attendance at those meetings has been 52 at Newcastle, 52 at Durham and 49 at Cramlington; with a membership of 111 this is very rewarding.

At the meeting held in Cramlington we heard a very full and interesting lecture on the problems of acid rain and the actions of the Central Electricity Generating Board.

Asbestos was the subject of our Durham Meeting, where Doctor Harrison gave a paper entitled "Living with Asbestos" in which she outlined the history of the development of asbestos and its use and major contribution to our current domestic and industrial practices. She was at great pains to inform the meeting that asbestos properly handled, and properly fixed and maintained is not a problem. She was rightly concerned that the sensationalism which the national press and their outlets had given to this topic had caused unnecessary worries. Mr. F.G. Sugden expressed the concern that we shared that all people who had of necessity to remove asbestos were fully conversant with the need to observe the highest standards in removal and disposal, otherwise the problems would be exacerbated.

The Solid Smokeless Fuels Federation is a watchdog which performs its work quietly and effectively. We were given the opportunity of learning more about their work, and of a greater importance their philosophy, by Mr. I. MacKay, General Manager. He along with members of his team gave a visual presentation of their work at our meeting in Newcastle. Those of us who have worked alongside the SSFF for many years appreciate the quality of service that they offer, and for the newer members this was an opportunity to have an introduction to the services that are readily available from this organisation.

During this year the Northern Division has been represented at the highest level by Councillor L. Poole, BEM, JP, who has not only chaired our meetings, but was the National Chairman of the NSCA and he performed his duties in the most exemplary manner, always being particularly forceful in informing other divisions of the sterling work that the members of the Northern Division are performing.

I have found the year a very enjoyable one assisted considerably by our Chairman, and by those members who have willingly come forward to present papers, assist in organising meetings, and participate in discussion; also those who, of equal importance, have attended and shown tremendous enthusiasm for our work. I hope that our next year will have even greater success.

W.C.B. Robson
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board
 (North Eastern Region)
 Industrial Air Pollution
 Inspectorate
 National Coal Board
 Northern Gas

LOCAL AUTHORITY MEMBERS

Allerdale District Council
 Barrow-in-Furness Borough Council
 Blyth Valley Borough Council
 Carlisle, City of
 Castle Morpeth Borough Council
 Chester-le-Street District Council
 Darlington Borough Council
 Durham, City of
 Easington District Council
 Gateshead Metropolitan Borough Council
 Hartlepool Borough Council
 Langbaugh Borough Council
 Middlesbrough Borough Council
 Newcastle upon Tyne, City of

North Tyneside Borough Council
 Sedgefield District Council
 South Tyneside Borough Council
 Stockton-on-Tees Borough Council
 Sunderland Borough Council
 Wansbeck District Council

CORPORATE MEMBERS

British Steel Corporation (Teesside
 Division)
 Coal Merchants Federation of Great
 Britain (Northern Region)

INDIVIDUAL MEMBERS

Calvert, Mrs. M.R.
 Cayton, S.*
 Cresswell, C.R. (Hon. Member)
 Emerson, R.
 Eve, Mrs M.E.
 Fisher, A.H.
 Issac, Prof. P.C.G.
 Mair, L.*
 Rutherford, I.J.
 Sugden, F.G.*
 Wilkinson, J.R.

DIVISION FOUR

NORTH WEST DIVISION

Chairman: D.R. Horner
 Hon. Secretary: J.B. Douglas,
 19 Orchard Close,
 Laffak,
 St. Helens

Visits this year were to Heysham Nuclear Power Station and two parties visited on two separate days because of the large number of persons interested. The visits followed the talk by the Health Physicist at our last A.G.M. and included a description of the processes illustrated by equipment and photographs, followed by guided tours of the working power station. Problems occur with technical visits because most Companies cannot cope with the numbers of people (up to 60) who wish to attend.

Following comments at previous meetings a Newsletter had been circulated to all members briefly outlining current items of concern both locally and nationally. This has been well received and will be continued.

The Divisional Council meetings had expressed concern about decreasing membership of companies and outside bodies. Members were asked to encourage companies to consider supporting the Society. The Secretary reported new members from Manchester and Salford Universities and some private members.

The big event of the year was the one day Symposium on Acid Rain at Haydock Park Racecourse in June. This had been attended by 112 people and had generated a great deal of interest.

Another item of interest from a subscribing member Company had been the question of excise duty being charged on process solvent vapour being destroyed by burning to provide a source of waste heat recovery. It would appear to be an unnecessary tax on efficient pollution control and heat recovery as the otherwise vented waste solvent would be untaxed. Letters had been sent from the General Council to Government Departments, without any positive reaction so far.

J.B. Douglas
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board
(North West Region)
Cheshire County Council
Industrial Air Pollution Inspectorate
Liverpool, City of
National Coal Board
North West Gas
Shell Chemicals Ltd

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bolton Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Metropolitan
County Council
Halton Borough Council
Hyndburn Borough Council
Knowsley Metropolitan Borough
Council
Macclesfield Borough Council

Manchester, City of
Oldham Metropolitan Borough Council
Pendle Borough Council
Ribble Valley Borough Council
Rochdale Metropolitan Borough
Council
Rossendale Borough Council
Salford, City of
Sefton Metropolitan Borough Council
St. Helens Borough Council
South Ribble Borough Council
Stockport Metropolitan Borough
Council
Tameside Metropolitan Borough
Council
Trafford Metropolitan Borough
Council
Warrington Borough Council
West Lancashire District Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

CORPORATE MEMBERS

Coal Merchants Federation of Great
Britain (North West Region)
Greater Manchester Council for
Clean Air & Noise Control
Metal Box Engineering
S.B. Booth & Company

The University of Manchester
Institute of Science & Technology
- Pollution Research Unit

INDIVIDUAL MEMBERS

Cain, J.
Cass, H.V.*
Christian, F.V.*
Collins, D.H.
Cook, Miss H.M.
Evans, T.
Fallows, W.B.*
Franklin, N.J.
Frazer, I.M.
Gea, Mrs. J.
Gee, J.
Hall, A.
Hendy, Dr. B.

Horton, P.H.
Hollingdale, R.A.W.*
Hughes, T.*
Kennedy, M.A.
Kenyon, H.
Lloyd, A.
Lowe, T.H.
Mather, Sir William*
Mayall, A.
McGauley, H.J.
Mercer, I.G.
Parsonage, H.*
Pollitt, W.E.*
Richards, J.E.
Slingsby, Ms. N.J.
Smith, D.
Taylor, A.*
Thomas, F.L.
Vanstone, H.B.*
Winder, F.*
Yates, C.J.

DIVISION FIVE

YORKSHIRE AND HUMBERSIDE

Chairman: Cllr. R.J. McElvenney

Hon. Secretary: D. Bird,

Environmental Health Department,
Sheffield City Council,
1 Barkers Pool,
Sheffield S1 1EN

The activities of the Division starting with the Annual General Meeting last year have been somewhat restrained as a period of reorganisation and rationalisation has been under way. Matters covered at Divisional meetings were: asbestos in the environment, with particular reference to contaminated land; pollution from road traffic; pollution, past, present and future; and a visit to Norsk Hydro Fertilisers Ltd at Immingham. To those presenters of papers, Dr. Paul Crossley from Leeds, Michael Gittins from Leeds, officers of Sheffield City Council and the management of Norsk Hydro, I offer my thanks.

Once again during the year casual vacancies have arisen in the Society and once again interest has been so high that a ballot has had to be held. That members of the Division wish to take an active part in its local and national activities is a true indication of the influence of the Society, and the use to which in particular local authority members feel membership can be put.

It is gratifying to note that the National Society for Clean

Air is recognised as one of the leading environmental bodies in the country. This year the Society has given evidence to the House of Lords on motor cycle noise, has pressed and supported its aims on Straw and Stubble Burning and Aerial Crop Spraying and has taken on board many matters referred to it from local authorities and constituent members.

It has a number of active committees; its Parliamentary and Local Government Committee, Technical Committee and more recently its Noise Committee are all active in pursuing the aims of the Society. Through the Society, local authority members are kept informed of activities on such matters as the future role of the Industrial Air Pollution Inspectorate, proposed allocations and regulations, particularly on air pollution, and government and ministerial thinking on pollution matters.

The Society also provides a link with local authorities throughout the country in order that action on clean air and related matters can be broadly co-ordinated.

Various members of the Division take advantage of the services offered by the Society, whilst others are content to offer support, merely taking advantage of the information service provided through the Society's Journals and Division. Yorkshire and Humberside is considered to be one of the most active Divisions in the Society and this is in no small part due to the membership at both political and officer level, supported by the activities of constituent members such as the NCB, CEEGB, Gas Boards, Industrial Air Pollution Inspectorate and industrial membership.

Once again I am using the vehicle of this Annual Report to ask members to contact me with their interests and desires for Divisional activities. Of particular interest would be the forging of links with the Yorkshire & Humberside Pollution Advisory Council, although such links exist via joint membership and the inclusion of the Secretary of that body on the Divisional Council of the Society. Matters of pressing local government concern can be forwarded via the Society which can be used to disseminate pollution information across a broad base of local authorities within Yorkshire and Humberside.

D. Bird
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board

Industrial Air Pollution Inspectorate
Leeds, City of
National Coal Board
North Eastern Gas
Sheffield, City of

South Yorkshire County Council
West Yorkshire County Council

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Calderdale Metropolitan Borough
Council
Cleethorpes District Council
Doncaster Metropolitan Borough
Council
Great Grimsby Borough Council
Harrogate Borough Council
Kingston upon Hull, City of
Kirklees Metropolitan Borough
Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
Wakefield Metropolitan Borough
Council
York, City of

CORPORATE MEMBERS

Atkins & Downie

British Steel Corporation
(Scunthorpe Division)
British Steel Corporation
(Sheffield Division)
Evans Universal Ltd
Union Carbide Ltd
Yorkshire & Humberside Pollution
Advisory Council

INDIVIDUAL MEMBERS

Barker, I.
Clarke, Dr. A.G.
Gilbertson, J.
Gittins, M.J.
Green, G.H.
Hutton, Dr. K.B.*
Inkersole, D.
Myers, P.
Perry, A.W.*
Reynolds, F.
Saword, A.C.*
Scott, J.A.
Store, N.J.
Tomlinson, E.S.
Tweed, R.J.
Twyford, W.B. (Hon. Member)
Williams, P.T.

DIVISION SIX

WEST MIDLANDS DIVISION

Chairman: Cllr. T. Short

Hon. Secretary: L.F. Medlycott,

Department of Planning & Environmental
Services,
PO Box 212,
Malinslee House,
Telford,
Shropshire TF3 4LL

The Division's 34th Annual General Meeting was held on the 13th March at the Shenstone Theatre Halesowen. The number of representatives attending was smaller than expected, being 25 out of a total of 105.

Following the conclusion of the morning meeting, the meeting divided into two groups, one visiting a local ironfoundry using cold blast cupolas and the other a foundry belonging to the Austin Rover Group using hot blast cupolas.

During the year, the Working Party on Lead Emissions from

cold blast cupolas has met on five occasions. Two surveys have been carried out with the co-operation of local authorities and their Environmental Health Departments within the Division. The surveys established firstly the number of cold blast cupolas still operational within the West Midlands, and secondly, the type and amount of metal melted and the system of arrestment used. The Working Party will be meeting on the 7th October to consider a draft interim report on its present findings. If the draft is approved, it will be presented to the Society. A final report is projected for sometime in 1986.

A full day meeting of the Division is currently being arranged for the 14th November, and will be held at the Birmingham New International Airport. The morning session will be devoted to Society matters and the afternoon will be a presentation by the Airport Technical Director on the noise control measures used by the Airport Authority.

Finally the grateful thanks of the Division must be made to Dudley M.B. Council who were hosts to the A.G.M. and to the Officers of that authority who arranged the foundry visits; in addition our thanks to H.M.I.A.P.I. at Birmingham for providing accommodation for the meetings of the Working Party on Lead from cold blast cupolas.

L.F. Medlycott
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
Industrial Air Pollution Inspectorate
National Coal Board
West Midlands Gas

Wolverhampton Metropolitan Borough
Council

Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

Lodge-Cottrell Ltd
The University of Aston in
Birmingham

LOCAL AUTHORITY MEMBERS

Coventry, City of
Dudley Metropolitan Borough Council
Hereford, City of
Newcastle-under-Lyme Borough Council
North Warwickshire Borough Council
Nuneaton & Bedworth Borough Council
Redditch Borough Council
Sandwell Metropolitan Borough Council
South Staffordshire District Council
Stoke-on-Trent, City of
Walsall Metropolitan Borough Council
Warwick District Council

INDIVIDUAL MEMBERS

Cross, R.A.
Hancock, Miss E.
Hulme, B.
James, E.N.
James, R.F.
Longley, J.C.*
Morris, O.R.

Norton, R.
 Pocock, Dr. R.L.
 Simmons, S.A.

Stuffins, L.N.
 Sulway, Mrs. K.J.
 Taylor, C.B.*

DIVISIONS SEVEN AND EIGHT

EAST MIDLANDS DIVISION

EASTERN DIVISION

Chairman: Cllr. F.E. Holland

Hon. Secretary: E.F. Raven,
 Housing and Environmental Services Department,
 The Council House,
 Corporation Street,
 Derby DE1 2FD

Our AGM last year was held in Derby when Rolls Royce were our hosts and one of the speakers was Mr. Hylton Dawson who is well known within the Society for his contributions to matters concerning noise.

In September, we were entertained by the Ashfield District Council and had amongst our number Councillor Chamberlain who was then the Chairman of the Ashfield Council, Councillor Len Poole BEM, Chairman of the Council of the Society, and Mr. D.F. Haynes MP, one of our Vice Presidents.

The final meeting of the 1984/85 year took us to Corby where again one of our speakers was a well known member of the Division in the person of Dr. D. Davies of the Nottingham City Hospital.

I am sure that members would wish me to record thanks to all responsible for arranging our meetings and for providing both meeting facilities and hospitality.

Our November Divisional Council meeting was at Kelham Hall, and again we are indebted to the Newark District Council for allowing us to use a committee room free of charge. In February of this year the Council met at the Council House, Nottingham, by kind invitation of the Lord Mayor (Councillor Mrs. Ivy Mathews) and the Nottingham City Council, who later entertained us to lunch.

Our May meeting again took place at Eastwood Hall by kind invitation of the Solid Fuel Advisory Service who also entertained us to lunch and we are indebted to the good offices of Mr. Elfed Davies for this invitation.

That, so to speak, is the mechanics of the year but it has been significant in other ways. The Society's new Noise Committee has been very active and both of our nominees, Alan Gibbon and David Romaine, have been involved - Alan on flat conversions, and David on motorcycle noise, which led him to give evidence to the House of Lords, and also on Noise Abatement Zone philosophy.

The Society has been active also in lobbying MPs and an Early Day Motion on Straw and Stubble burning is at present being promoted. Efforts are being made to improve publicity and serious consideration is being given to forming some sort of junior membership scheme. There are implications, still to be worked out, for local secretaries for whom extensions in activity could have quite significant implications.

Finally, my thanks are due to the Chairman and other officers for their help and support, to all who have assisted readily in helping to organise meetings and not least to all of you who, by your continued attendance and interest, make the task worthwhile.

E.F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board
(Midlands Region)
Coalite Group Plc
East Midlands Gas
Industrial Air Pollution Inspectorate
National Coal Board
Rexco Ltd
Rolls Royce Ltd
The Incinerator Company Ltd

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston Borough Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council

Corby District Council
Derby, City of
Erewash Borough Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak Borough Council
Hinckley & Bosworth Borough Council
Huntingdon District Council
Leicester, City of
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Nottingham, City of
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough District Council
West Derbyshire District Council

CORPORATE MEMBERS

British Steel Corporation
 (Chemicals Division)
 British Steel Corporation
 (Tubes Division)
 Leicester Polytechnic
 Low Temperature Coal Distillers
 Association of Great Britain Ltd
 Solid Smokeless Fuels Federation

INDIVIDUAL MEMBERS

Brown, A.H.
 Burns, G.*
 Clayton, H.M.
 Davis, D.
 Ffowcs Williams, Professor J.E.
 Hall, J.E.
 Haynes, F.
 Hunt, Dr. J.C.R.
 Inglefield, Mrs. E.J.
 Richards, Dr. J.M.
 Riley, Dr. R.V.*
 Romaine, D.R.
 Stewart, Mrs. E.E.
 Turner, Miss H.E.
 Turner, T. Henry* (Hon.Member)
 Weldon, Miss G.M.*

DIVISIONS NINE AND TEN

LONDON AND SOUTH EAST DIVISION

CENTRAL SOUTHERN DIVISION

Chairman: Mrs. E.M.L. Naylor
 Hon. Secretary: J.J. Beagle,
 19 Oxgate Gardens,
 Brent NW2 6EA.

The 30th Annual General Meeting of the Division took place on Tuesday June 11th 1985 at Hobart House, the headquarters of the National Coal Board at Grosvenor Place, London SW1. The Chairman welcomed the Secretary General, Air Commodore John Langston CBE, members and representatives.

Mrs. E.M.L. Naylor was re-elected Chairman; Mr. A.E. Rees

MEMBERSHIP LIST

SUSTAINING MEMBER

Industrial Air Pollution Inspectorate

LOCAL AUTHORITY MEMBERS

Basildon District Council
 Brentwood District Council
 Castle Point District Council
 Colchester Borough Council
 Epping Forest District Council
 Harlow District Council
 Ipswich Borough Council
 Norwich, City of
 Thurrock Borough Council

CORPORATE MEMBER

Ford Motor Company Ltd

INDIVIDUAL MEMBERS

Baxter, M.
 Catlow, J.
 Dobson, P.F.
 Fisher, J.G.
 Goodfellow, J. (Hon.Member)
 Palmer, M.J.
 Parsons, E.
 Stephenson, Dr. R.J.*
 Wade, J.T.
 Walder, A.N.
 Waldron, Mrs M.M.
 Waldron, R.A.

was re-elected Vice Chairman; Mr. J.J. Beagle was re-elected Hon. Secretary; Mr. K. Dorman was re-elected Hon. Auditor. Three members of the Council of the Society from the South East Division and one member from the Central Southern Division were elected as follows: Mr. J.C. Clancey OBE (re-elected), London and S.E; Dr. M.J.R. Schwar (re-elected), London and S.E; Professor R.S. Scorer (re-elected), London and S.E; Dr. R.A. Barnes (elected on the retirement of Mr. R.F. Shapter), Central Southern.

Mr. J. Downs (HM IAPI) and Councillor Mrs. B. Solkhon (Brighton Borough Council) were co-opted onto the Committee.

After the meeting Jean Pierre Perrault, Technical Research Manager for Engineering of the Ford Motor Company, gave an illustrated talk on the lean burn engine. He was assisted by Mr. D.G. Gould, Regulations and Automotive Safety Planning Officer of the Ford Motor Company. The talk was extremely interesting and informative and was stimulated by questions and answers as the meeting progressed. The difficulties of achieving lean burn were fully explained together with the workings of the catalytic converter.

In November 1984, a very successful visit was made to the Laboratories of the TUC Centenary Institute of the London School of Hygiene and Tropical Medicine, where many aspects of occupational health were explained and demonstrated.

In March 1985, Mr. R.F. Shapter, FIEH, announced his retirement from the Committee. For many years, Mr. Shapter has represented the Central Southern Division, as Honorary Secretary, Divisional Chairman and Council member. Our very best wishes were conveyed to him and no doubt he will continue to serve the interests of the Society as an individual member.

J.J. Beagle
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas Corporation
B.P. International Ltd
B.P. Oil Ltd
Central Electricity Generating Board
Coal Merchants Federation of Great Britain
Eastern Gas

Environmental Protection Equipment
Manufacturers Association
Esso Petroleum Company Ltd
Greater London Council
Industrial Air Pollution Inspectorate
National Coal Board
North Thames Gas
Shell International Petroleum Company Ltd
Shell U.K. Oil Ltd
South Eastern Gas
Texaco Ltd

LOCAL AUTHORITY MEMBERS

Adur District Council
 Barnet, London Borough of
 Bexley, London Borough of
 Brent, London Borough of
 Brighton Borough Council
 Bromley, London Borough of
 Broxbourne Borough Council
 Camden, London Borough of
 Crawley Borough Council
 Dacorum District Council
 Dartford Borough Council
 Dover District Council
 Ealing, London Borough of
 Eastbourne Borough Council
 Elmbridge Borough Council
 Enfield, London Borough of
 Epsom & Ewell Borough Council
 Gravesham Borough Council
 Greenwich, London Borough of
 Guildford Borough Council
 Hackney, London Borough of
 Hammersmith & Fulham, London Borough of
 Harrow, London Borough of
 Havering, London Borough of
 Hounslow, London Borough of
 Islington, London Borough of
 Kensington & Chelsea, Royal Borough of
 Kingston upon Thames, Royal Borough of
 Lewes District Council
 Lewisham, London Borough of
 London, Corporation of
 Merton, London Borough of
 Richmond upon Thames, London Borough of
 Rochester upon Medway Borough Council
 Southwark, London Borough of
 Surrey Heath Borough Council
 Sutton, London Borough of
 Tower Hamlets, London Borough of
 Watford Borough Council
 Westminster, City of
 Woking Borough Council
 Worthing Borough Council

CORPORATE MEMBERS

Advance Central Services Ltd
 Atkins, W.S. Group Ltd
 Babcock Power Ltd

Blue Circle Industries Ltd
 British Steel Corporation
 Confederation of British Road Passenger Transport
 Guinness, A. Son & Co (Park Royal) Ltd
 Industrial Gas Cleaning Association
 Institution of Environmental Health Officers, The
 Institution of Gas Engineers, The
 Institute of Petroleum
 Johnson Matthey Chemicals Ltd
 McCrone Research Institute Ltd
 Mobil Oil Company Ltd
 North East Surrey College of Technology
 Preston Circus Association
 Policies Studies Institute
 South East London Technical College
 St. Thomas's Hospital Medical School, Department of Community Medicine
 Tottenham College of Technology
 Women's Solid Fuel Council

INDIVIDUAL MEMBERS

Ades, T.R.
 Ball, Dr. D.J.
 Beaumont, M.
 Bevington, C.F.P.
 Boddy, J.H.*
 Bond, Professor G.G.
 Brown, H.
 Brown, T.J.
 Butlar, J.W.*
 Carroll, Ms.V.
 Clancey, J.*
 Clark, A.
 Clarke, Mrs. B.
 Colville, Lt. Com. R.F.
 Craxford, Dr. S.R.*
 Day, M.R.
 Dibb, Ms. S.E.
 Douglas, M.
 Duckworth, P.O.
 East, R.G.
 Ellis, P.T.A.
 Finch, S.R.
 Fox A.H.
 Frankland, R.*
 Gandy, Miss R.L.*
 Garland, G.E.
 Garland, P.
 Giblin, H.*

Goldsmith, A.
 Grant, P.M.
 Green, S.M.
 Greenhead, S.*
 Hamilton, R.
 Hunt, J.R.J.
 Iddison, T.H.*
 James, B.W.
 Jones, T.H.
 Kayes, Dr. P.J.
 Kitchener, Earl*
 Lees, B.*
 Lingard, Ms. H.
 Lucas, P.
 McIntyre, A.E.
 McKenna, K.H.
 Meades, G.
 Menuhin, Yehudi
 Mowle, C.R.
 Perkins, P.R.
 Perriman, R.J.
 Raggett, G.F.
 Rayson, H.
 Redston, D.
 Reed, L.E.
 Rice, A.P.
 Richardson, R.C.*
 Scannell, K.
 Scorer, Professor R.S.
 Shillito, D.E.
 Skea, Dr. J.
 Smith, P.
 Train, Dr. D.
 Tsang, P.
 Turner, D.W.
 Turner, Dr. W.C.*
 Vine, Mr & Mrs G.M.*
 Warmann, J.C.
 Willcox, Mrs. M.C.T.R.
 Wilson, D.
 Wythers, J.R.G.*

MEMBERSHIP LIST

SUSTAINING MEMBER

Southern Gas

LOCAL AUTHORITY MEMBERS

Bracknell District Council
 Cherwell District Council
 Fareham Borough Council
 Gosport Borough Council
 Luton Borough Council
 Mid Bedfordshire District Council
 Oxford, City of
 Portsmouth, City of
 Slough Borough Council
 Southampton, City of
 South Bedfordshire District Council
 South Oxfordshire District Council
 Wokingham District Council
 Wycombe District Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
 B.E.S. Ltd
 Calor Gas Ltd
 Cleerburn Ltd
 Highbury College of Technology

INDIVIDUAL MEMBERS

Bairds, J.M.
 Bartlam, J.N.
 Billington, N.J.
 Fleming, B.
 Fuller, H.I.
 Miessler, E.*
 Nevard, L.
 Phillips, H.
 Robson, A.
 Scotson, D.A.*
 Tagg, J.R.
 Verdin, A.

DIVISION ELEVEN

SOUTH WEST DIVISION

Chairman: H. Dawson

Hon. Secretary: H.R. Nowell,

Department of Environmental Services,
 Abbey Chambers,
 Bath BA1 1NT

Three meetings were held during the year, the first of which, the AGM, saw a return visit to CEGB's nuclear power station at Hinkley Point. Mr. P. Carter, the Site Liaison Officer, described the types of nuclear waste produced on site and their means of disposal. Particular attention was directed to the transportation by road and rail of irradiated fuel to Sellafield, Cumbria, which was illustrated by the video "Operation Smash Hit". Members then embarked on a tour of Hinkley 'B' Station which concluded with refreshments and discussion.

Twenty eight members attended the December meeting at Monkton Park, Chippenham, courtesy of North Wiltshire D.C.. This was a two subject meeting devoted to motor vehicle emission control systems and to the work of the Society's Noise Committee. Mr. R.A. Searles of Johnson Matthey Chemicals Ltd. presented a slide illustrated talk on his company's development of exhaust catalysts. He detailed the success achieved in the U.S.A. where autocatalysts had achieved emission control without major losses in fuel economy or engine performance, and with a spin-off benefit of some exhaust sound attenuation. In West Germany the use of tax concession and price differentials had encouraged the use of autocatalysts and lead free petrol. The ensuing informative discussion period was drawn to a close to enable the Chairman, Mr. Hylton Dawson, to inform members on the background to the establishment of the Noise Committee and the topics which were under active consideration. The full discussion period which followed underlined members' interest and concern regarding environmental noise and emphasised the need for their views to be channelled through the Chairman or Secretary as Noise Committee representatives, thereby promoting an effective reflection of those views.

Regrettably the Spring Seminar, "Pollution Control - The European Dimension", was cancelled due to a lack of support. With quality speakers, a proven venue and fee, the failure to generate interest is attributed to the subject matter and to the underestimation of the importance and impact of European decisions.

Amey Roadstone Corporation hosted the final meeting which was devoted to considering the environmental pollution problems posed by quarrying activities. Mr. J. Colehan first outlined the legislative control and then used slides to illustrate the pollution causing processes and their means of control. Mr. P. Trew then addressed the meeting on noise and vibration, detailing the human and building response to, in particular, the blasting operation. He explained body and surface waves and overpressure, and concluded by outlining the solutions

available.

Following a short discussion period the twenty seven members present embarked on an interesting, noisy and fairly dusty tour of the premises, climaxing with the experience at close quarters of the effects of a quarry blast.

The year has seen a maintenance of interest by members in both Division and Society activities but I sense a need for a new impetus to be given in 1986.

H.R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Avon County Council
Central Electricity Generating Board
(South West Region)
Industrial Air Pollution Inspectorate
National Coal Board
South West Gas

CORPORATE MEMBERS

Bristol Industrial and Research
Association
Cornwall Noise Advisory Committee
Cross Manufacturing Ltd
Enviro Technology

LOCAL AUTHORITY MEMBERS

Bath, City of
Bristol, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Teignbridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Torbay Borough Council
Woodspring District Council

INDIVIDUAL MEMBERS

Baxter, T.*
Briggs, E.
Colehan, J.E.
Dickerson, D.S.
Edwick, B.H.
Garrigar, O.L.
Hannabuss, G.*
Lane, Dr. J.J.
Merrick, R.J.
Newnham, Mrs E.
Parker, Dr. R.A.
Price, B.
Redston, R.V.*
Shapter, R.F.* (Hon.Member)
Travers, I.D.
Upon, B.C.*
Vick, J.L.

DIVISION TWELVE

SOUTH AND MID WALES DIVISION

Chairman: H.I. Thomas
Hon. Secretary: T. Jones,
28 Maes-y-celyn,
Griffithstown,
Pontypool,
Gwent

The Annual General Meeting 1984, was held at the offices of

Lliw Valley Borough Council and was attended by 42 persons. The Mayor of Lliw Valley invited members to lunch at the conclusion of the meeting. Rhymney Valley District Council representatives invited the Society to hold its Annual Meeting 1985 at their offices. Mr. A.F. Linehan (Area Director, Health and Safety Executive) presented a paper to the Division.

A General Meeting of the Division was held at Newport Borough Council offices and was attended by 38 persons. Councillor G. Sumners, Mayor of Newport, welcomed delegates.

The main purpose of the meeting was a visual presentation given by Mr. I. MacKay, General Manager of the Solid Smokeless Fuels Federation. Mr. MacKay spoke about the formation of the Federation, production of gas coke and the Welsh fuels, the production of smokeless fuel by the NCB, and about Coalite and Rexco. Mr. MacKay stressed that there was still a lot of work to be done in the field of clean air. After speaking he then presented a video display about smokeless fuels and clean air. Lunch was provided by the Federation and arranged by Newport's catering staff.

At the end of March, a general meeting was held which took the form of a visit to Oldbury-On-Severn Power Station. Unfortunately, maybe due to the inclement weather, only 22 persons were able to attend. A conducted tour of the station was given by the guides and a video presentation was shown about the transportation of nuclear waste.

During the year the Divisional Council's deliberations have included those matters being debated by Committees at National level. This is a slightly new departure but one well worth the effort in that representatives to the National Council have a greater awareness of the Division's attitudes towards certain topics. Each of the representatives presents a report about the Committee upon which they serve. This has to be a verbal report since it is not physically possible to arrange for Divisional Council members to be provided with copies of agendas.

The matters discussed by the Divisional Council have included Annual Conference, technical visits, Conference Programme, crop spraying, smoke control, straw and stubble burning, HM IAPI, noise problems, workplace noise, membership, acid rain and asbestos.

T. Jones
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Industrial Air Pollution Inspectorate
 Mid Glamorgan County Council
 National Coal Board
 Wales Gas

LOCAL AUTHORITY MEMBERS

Afan Borough Council
 Blaenau Gwent Borough Council
 Cardiff, City of
 Cynon Valley Borough Council
 Islwyn Borough Council
 Llanelli Borough Council
 Lliw Valley Borough Council
 Neath Borough Council
 Newport Borough Council
 Preseli District Council
 Rhondda Borough Council

Rhymney Valley District Council
 Swansea, City of
 Taff-Ely Borough Council
 Torfaen Borough Council
 Vale of Glamorgan Borough Council
 West Glamorgan County Council

CORPORATE MEMBERS

British Steel Corporation (Welsh
 Division)
 South Glamorgan Institute of Higher
 Education
 Swansea Port Health Authority

INDIVIDUAL MEMBERS

Dearden, J.*
 Jones, M.
 Palmer, K.C.
 Parry, J.R.
 Thayer, J.M.

DIRECTORY OF ORGANISATIONS

GREAT BRITAIN

ARTS, ARCHITECTURE & TOWN PLANNING

BUILDING CENTRE GROUP, THE
26 Store Street,
London WC1E 7BT
Tel: 01-637 1022
Telex: 261507 Ref: 3324

BUILDING RESEARCH ESTABLISHMENT
Building Research Station,
Garston, Watford WD2 7JR
Tel: Watford (0923) 674040
Fire Research Station,
Borehamwood, Herts. WD6 2BL
Tel: 01-953 6177
Princes Risborough Laboratory,
Princes Risborough, Aylesbury,
Buckinghamshire HP17 9PX
Tel: Princes Risborough
(084 44) 3101
Scottish Laboratory, East
Kilbride, Glasgow G75 0RZ
Tel: East Kilbride
(035 52) 33941

CIVIC TRUST
17 Carlton House Terrace,
London SW1Y 5AW
Tel: 01-930 0914

HOUSING CENTRE TRUST
33 Alfred Place,
London WC1E 7JU
Tel: 01-637 4202

INCORPORATED ASSOCIATION OF
ARCHITECTS AND SURVEYORS
Jubilee House, Billing Brook
Road, Weston Favell,
Northampton NN3 4NW
Tel: Northampton (0604)
404121

INSTITUTION OF CIVIL ENGINEERS
Great George Street,
London SW1P 3AA
Tel: 01-222 7722

INSTITUTE OF HOUSING
12 Upper Belgrave Street,
London SW1X 8BA
Tel: 01-245 9933-7

INSTITUTION OF MUNICIPAL ENGINEERS
See INSTITUTION OF CIVIL ENGINEERS

INTERNATIONAL INSTITUTE FOR
CONSERVATION OF HISTORIC &
ARTISTIC WORKS
6 Buckingham Street,
London WC2N 6BA
Tel: 01-839 5975

NATIONAL HOUSING AND TOWN
PLANNING COUNCIL
14-18 Old Street,
London EC1V 9AB
Tel: 01-251 2363

ROYAL INSTITUTE OF BRITISH
ARCHITECTS
66 Portland Place,
London W1N 4AD
Tel: 01-580 5533

ROYAL SOCIETY OF ARTS
6-8 John Adam Street,
London WC2N 6EZ
Tel: 01-930 5115

ROYAL TOWN PLANNING INSTITUTE
26 Portland Place
London W1N 4BE
Tel: 01-636 9107

SOCIETY FOR THE PROTECTION OF
ANCIENT BUILDINGS
37 Spital Square,
London E1 6DY
Tel: 01-377 1644

TOWN AND COUNTRY PLANNING
ASSOCIATION
17 Carlton House Terrace
London SW1Y 5AS
Tel: 01-930 8903/4/5

CLEAN AIR

INDUSTRIAL AIR POLLUTION
INSPECTORATE
Chief Inspector, Mr. R. Perriman,
Industrial Air Pollution
Inspectorate,
Romney House, 43 Marsham Street,
London SW1P 3PY
Tel: 01-212 8981
(General enquiries)

Chief Inspector for Northern
Ireland, Mr. D. Hinchliff,
Department of the Environment
for Northern Ireland, Alkali and
Radiochemical Inspectorate,
Stormont, Belfast BT4 3SS
Tel: Belfast (0232) 63210

HM Industrial Pollution
Inspectorate for Scotland,
Chief Inspector,
Mr. I. W. W. Wright, Scottish
Development Department,
Pentland House, 47 Robb's Loan,
Edinburgh EH14 1TY
Tel: 031-443 8681

DERBYSHIRE ADVISORY COUNCIL FOR
CLEAN AIR AND NOISE CONTROL
Honorary Secretary,
Town Clerk & Chief Executive's
Department, Town Hall,
Chesterfield S40 1LP
Tel: Chesterfield (0246)
77232

INSTITUTION OF CHEMICAL ENGINEERS
165-171 Railway Terrace,
Rugby CV21 3HQ
Tel: Rugby (0788) 78214

INSTITUTE OF PETROLEUM
Atmospheric Conservation,
Environmental Health
P. Jones/G.S. Parkinson,
61 New Cavendish Street,
London W1M 8AR
Tel: 01-636 1004

MANCHESTER AREA COUNCIL FOR
CLEAN AIR AND NOISE CONTROL
Hon. Sec. E.W. Foscett,
c/o T.L. Cooke, Pollution
Control Section,
Environmental Health Department,
Town Hall, Manchester M60 2JB
Tel: 061-234 4870

MIDLAND JOINT ADVISORY COUNCIL
FOR CLEAN AIR AND NOISE CONTROL
Hon. Sec. C. Brookfield,
Environmental Health Department,
Sandwell Metropolitan Borough,
Flash Road, Oldbury, Warley,
West Midlands B69 4AF
Tel: 021-552 3871

NATIONAL SOCIETY FOR CLEAN AIR
Central Offices: 136 North Street,
Brighton BN1 1RG
Tel: Brighton (0273) 26313

Scottish Division:

F.J. Feeley,
c/o The Building & Works Dept.,
City of Glasgow DC,
266 George Street, Glasgow G1 1QX
Tel: 041-227 4765

Northern Ireland Division:

O. Hetherington,
15 Casaelldona Rise,
Belfast BT6 9RA
Tel: Belfast (0232) 794185

Northern Division:

W.C.B. Robson, Borough
Environmental Health Officer,
Darlington Borough Council,
Town Hall, Darlington DL1 5QU
Tel: Darlington (0325) 460651

North West Division:

J.B. Douglas,
19 Orchard Close,
Laffak,
St. Helens
Tel: St. Helens (0744) 24061,
ext. 3209 or 3118

Yorkshire & Humberside Division:

D.Bird, Environmental Health
Department, Sheffield City
Council, 1 Barkers Pool,
Sheffield S1 1EN
Tel: Sheffield (0742)
734653

West Midlands Division:

L.F. Medlycott, Department of
Planning and Environmental
Services, P.O. Box 212,
Malinslee House, Telford,
Shropshire TF3 4LL
Tel: Telford (0952) 505051
ext. 510

East Midlands Division and

Eastern Division: E.F. Raven,
Housing and Environmental
Services Department, The Council
House, Corporation Street,
Derby DE1 2FD
Tel: Derby (0332) 31111 ext.650

London and South East Division
and Central Southern Division:

J.J. Beagle, 19 Oxgate Gardens,
Brent NW2 6EA
Tel: 01-452 0203

South West Division:

H.R. Nowell, Department of
Environmental Services,
Abbey Chambers, Bath BA1 1NT
Tel: Bath (0225) 61111 ext. 459

South and Mid-Wales Division:

T. Jones, 28 Maes-y-celyn,
Griffithstown, Pontypool, Gwent
Tel: 06333 67791

ROYAL SOCIETY OF CHEMISTRY

Burlington House, Piccadilly,
London W1V 0BN
Tel: 01-437 8656

THAMESIDE JOINT COMMITTEE FOR
THE ABATEMENT OF ATMOSPHERIC
POLLUTION

Hon. Sec. G.H. Ramage, Civic
Centre, Gravesend, Kent DA12 1AU
Tel: Gravesend (0474) 64422

WARWICKSHIRE ENVIRONMENTAL
PROTECTION COUNCIL

c/o Chief Environmental Health
Officer, Rugby Borough Council,
Housing & Environmental Health
Department, The Retreat, Newbold
Road, Rugby CV21 2LN
Tel: Rugby (0788) 77177

YORKSHIRE AND HUMBERSIDE
POLLUTION ADVISORY COUNCIL

Hon. Sec. N.H. Morton, Director
of Environmental Health, Thorn
Bank, 38 Moorgate Road,
Rotherham S60 4BX
Tel: Rotherham (0709) 373731

FUEL AND ENERGYABSAM

(Association of British Solid
Fuel Appliance Manufacturers)
Fleming House, Renfrew Street,
Glasgow G3 6TG
Tel: 041-332 0826
Telex: 779433

BP OIL LIMITED
BP House, Victoria Street,
London SW1E 5NJ
Tel: 01-821 2000, ext. 2087

BRITISH GAS CORPORATION
Rivermill House, 152 Grosvenor
Road, London SW1V 3JL
Tel: 01-821 1444
Telex: 938529

BRITISH NUCLEAR ENERGY SOCIETY
1-7 Great George Street,
London SW1P 3AA
Tel: 01-630 0726

BRITISH OIL SPILL CONTROL
ASSOCIATION (BOSCA)
32-38 Leman Street,
London E1 8EW
Tel: 01-488 0171

BUILDING SERVICES RESEARCH
& INFORMATION ASSOCIATION
Old Bracknell Lane West,
Bracknell, Berkshire RG12 4AH
Tel: Bracknell (0344) 426511
Telex: 848288

CENTRAL ELECTRICITY GENERATING
BOARD
Sudbury House, 15 Newgate Street,
London EC1A 7AU
Tel: 01-634 5111

CHARTERED INSTITUTION OF
BUILDING SERVICES ENGINEERS
Delta House, 222 Balham High
Road, London SW12 9BS
Tel: 01-675 5211

COMBUSTION ENGINEERING
ASSOCIATION
Mount Lodge, Station Parade,
London Road, Sunningdale, Berks.
Tel: Ascot (0990) 25035/6

DOMESTIC SOLID FUEL APPLIANCES
APPROVAL SCHEME
Hobart House, Grosvenor Place,
London SW1X 7AE
Tel: 01-235 2020, ext. 34953

ELECTRICAL ASSOCIATION FOR WOMEN
25 Foubert's Place,
London W1V 2AL
Tel: 01-437 5212

ELECTRICITY COUNCIL
30 Millbank, London SW1P 4RD
Tel: 01-834 2333

ERA TECHNOLOGY LIMITED
Cleeve Road, Leatherhead, Surrey
KT22 7SA
Tel: Leatherhead (0372) 374151
Telex: 264045

ESSO UK PLC
Victoria Street, London SW1E 5JW
Tel: 01-834 6677

INDUSTRIAL GAS CLEANING
ASSOCIATION
15 Took's Court, London EC4A 1LA
Tel: 01-831 7581
Telex: 23485

INSTITUTE OF ENERGY
18 Devonshire Street, London
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Göttingen.
Contact: Bernard Uhlrich

Bundestalt für Materialprüfung (BAM), Unter den Eichen 87, 1000 Berlin 45.

Bundesgesundheitsamt, Institut für Wasser-, Boden- und Luft-hygiene, Corrensplatz 1, 1000 Berlin 33.

Bundesministerium des Innern, Rheindorfer Str. 198, 5300 Bonn.

Bundesverband der Deutschen Industrie, Abt. Umweltfragen, Oberländer Ufer 84-88, 5 Köln 51

Deutsche Gesellschaft für Mineral-ölwissenschaft und Kohlechemie e.V., 2 Hamburg 1, Steindamn 71

Deutsches Krebsforschungszentrum Heidelberg, Institut für Toxikologie und Chemotherapie der Universität Heidelberg, 6900, Heidelberg 1, Im Neuenheimer Feld 280.

Deutscher Städtetag, Lindenallee 11, 5000 Köln-Marienburg

Deutscher Verein von Gas- und Wasserfachmännern, 6000 Frankfurt Main 97, Theodor-Huess-Allee 90-98.

Fachvereinigung Metallhütten- und Umschmelzwerke e.V. Tersteegenstr 28, 4000 Düsseldorf.

Hygiene Institut Zentrum für Ökologie am Klinikum der Justus Liebig-Universität, Friedrichstr. 16 6300 Giessen.

Institut für Angewandte Botanik der Universität Hamburg, 2000 Hamburg 36, Marseillstr. 7.

Institut für Pflanzenökologie der Justus Liebig-Universität, Heinrich-Buff-Ring 38. 6300 Giessen.

Institut für Pharmakologie, Toxikologie u. Pharmazie d. Tierärztlichen Hochschule, 3000 Hannover, Bischofsholer Damm 15.

Institut für Technische Physik der Fraunhofer-Gesellschaft, Königstr. 70/74, 700 Stuttgart-Degerloch.

Landesanstalt für Immissionsschutz des Landes Nordrhein-Westfalen, Wallneyer Str. 6, 4300 Essen.

Landesanstalt für Umweltschutz Baden-Württemberg, Institut für Immissions-Arbeits- u. Strahlenschutz 75 Karlsruhe 21, Hertzstr. 173.

Landwirtschaftliche-Universität Hohenheim Institut für Tierernährung, Fachgr. 9, 7000 Stuttgart 70, Emil Wolff-Str. 8.

Med. Fakultät der RWTH Aachen Abt. Hygiene und Arbeitsmedizin Lochnerstr. 4-20. 5100 Aachen.

Medizinisches Institut für Umwelthygiene, 4000 Düsseldorf, Gurlittstr. 53.

Medizinische Hochschule Hannover
Abt. für experimentelle Pathologie,
Theoretische Institute, Karl-
Wiechert-Allee 9, 3000 Hannover 61.

Ministerium f. Arbeit, Gesundheit
u. Soziales des Landes NRW, 4
Düsseldorf 1, Postfach 1134.

Rhein, -Westf. Technischer Über-
wachungs-Verein e.V., Steubenstr.
53 4300 Essen.

Silikose-Forschungsinstitut der
Bergbau-AG, Medizinische Abteil-
ung, 4630 Bochum, Hundscheidstr.
12.

Berufsgenossenschaftliches
Institut für Arbeitssicherheit-BIA,
Lindenstr. 80, 5205 St. Augustin.

Steinkohlenbergbauverein Haupt-
stelle für Staub- und Silikosebe-
kämpfung, 43 Essen-Kray, Franz-
Fischerweg 61.

Technischer Überwachungs-Verein
Rheinland e.V., Postfach 101 750
5000 Köln 1.

Umweltbundesamt, 1000 Berlin 33,
Bismarckplatz 1.

Verein Deutscher Eisenhüttenleute,
Breite Str. 27, 4000 Düsseldorf.

Verein Deutscher Giessereifach-
leute e.V., Sohnstr. 70, 4000
Düsseldorf.

Verein Deutscher Ingenieure (VDI)
- Kommission Reinhaltung der Luft,
Postfach 1139, Graf-Recke-Str. 84,
D-4000 Düsseldorf 1.
Secretary: Dr. Ing. Klaus Grefen.

Vereinigung der Technischen Über-
wachungs-Vereine e.V., 43 Essen,
Kurfürstenstr. 56.

VGB - Technische Vereinigung der
Grosskraftwerksbetreiber e.V. 43
Essen, Klinkestr. 29/31.

GREECE

Committee for the Protection of
the Environment,
c/o Technical University of Athens,
Athens.

Hellenic Association on
Environmental Pollution (ERYEA),
Xenofondos 14,
Athens 118.
Director: Dr. A. Mavromatis.

Hellenic Society for Protection of
Fauna and Environment,
9 Fragini Street,
Thessalonika.

HUNGARY

National Authority for
Environment Protection and
Nature Conservation,
PO Box 33,
1531 Budapest.

ICELAND

Icelandic Association of
Nature Conservation Societies,
Sundstraeti 24,
Isafiroi.

INDIA

National Environmental Research
Institute, Nehru Marg, Nagpur-
440020.

Central Labour Institute, Off
Eastern Express Highway, Sion,
Bombay 400022.

Bhabha Atomic Research Centre,
Health Physics Division, Trombay,
Bombay 400085.

Department of Civil Engineering,
Indian Institute of Technology,
I.I.T. P.O. Hauz Khas, New
Delhi, 110 029.

Department of Civil Engineering,
Jadavpur University, Calcutta -
700032 (W.B.).

Indian Association for Air
Pollution Control,
School of Environmental Sciences,
Jawahar Lal Nehru University,
New Delhi - 110057.
President: Prof. J.M. Dave.

Indian Standards Institution,
'Manak Bhawan', 9 Bahadur Shah,
Zafar Marg, New Delhi - 110002.

Internal Combustion Engines
Laboratory, Department of
Mechanical Engineering, Indian
Institute of Technology, Madras-
600036.

National Institute of
Occupational Health, Meghani
Nagar, Ahmedabad - 380016.

All-India Institute of Hygiene
& Public Health, Dept. of
Occupational Health,
110 Chittaranjan Avenue,
Calcutta 700 073.

ISRAEL

The Public Council for the
Prevention of Noise and Air
Pollution in Israel (MALRAZ)
P.O. B. 23047, Tel-Aviv 61230,
Israel.
Chairman: Y. Beerli.

ITALY

Associazione Termotecnica
Italiana, Comitato di Studio
per l'Inquinamento Atmosferico
ATI/CSIA
c/o ISMAR, Via Assarotti 15/2
16122 - Genoa.
President: Prof. G. Ferraiolo.
Vice President: Prof. G. Zerbo.

Consiglio Nazionale delle
Ricerche, Piazzale delle Scienze
7, Rome.

ENEL - Direzione Construzioni
Termiche e Nucleari, Via G.B.
Martini, 3, Rome.

ESSO Standard Italiana - Environ-
ment Division, Piazza Industria,
46, Rome - EUR.

ILVA Society, Via Corsica 4,
Genoa.

Institute of Hygiene, University
of Ferrara, Corso Giovecca 173A,
Ferrara.

Institute of Hygiene, University
of Genoa, Via A. Pastore 1,
Genoa.

Istituto di Ingegneria Sanitaria
del Politecnico di Milano,
Piazza Leonardo da Vinci, 32,
20133 Milan.

Istituto Superiore di Sanita,
Viale Regina Elena 299, Rome.

Stazione Sperimentale per i
Combustibili, Viale De Gasperi 3,
San Donato Milanese, Milan.

JAPAN

The Institute of Public Health
6-1, 4-chome, Shironganedai,
Minato-ku, Tokyo 108.

Japanese Union of Air Pollution
Prevention Associations -
JUAPPA,
c/o Industrial Pollution Control
Association of Japan,
Shuwa Toranomon No. 3 Bldg.,
21-8 Toranomon 1 chome, Minato-ku
Tokyo 105.
Executive Director: N. Suzuki.

Industrial Pollution Control
Association of Japan - IPCAJ,
Shuwa Toranomon No. 3 Bldg.
21-8 Toranomon 1 chome, Minato-
ku, Tokyo 105.

Osaka City Institute of Public
Health and Environmental Science,
8-34 Tojo-machi, Tennoji-ku,
Osaka-543.

MALAYSIA

Environmental Protection Society
Malaysia (EPSM),
Peti Surat 382, Petaling Jaya,
Malaysia.
Tel: 03. 757767.

Sahabat Alam Malaysia
(Friends of the Earth, Malaysia)
37 Lorong Birch,
Penang,
West Malaysia.

MALTA

Society for Clean Air, 8-10
Civic Centre, Senglea, Malta.

MEXICO

Centro de Ciencias de la Atmosfera,
Universidad Nacional Autonoma de
Mexico, Delegacion Coyoacan,
Codigo Postal 04510,
Mexico DF.
Secretary: Dr. Humberto Bravo.

THE NETHERLANDS

Central Service for Environmental
Control Rijnmond,
's-Gravenlandseweg 565,
3119 XT Schiedam.

Council for Air Pollution,
Ministry of Public Health and
Environmental Hygiene,
P.O. Box 439
2260 AK Leidschendam.

Division for Air Pollution,
Gemeentelijk Bouw- en
Woningtoezicht, Mauritskade
9-11, 2514 HD 's-Gravenhage.

Division Technology for Society
TNO, P.O. Box 217, 2600 AE Delft.

Foundation Nature and Environment,
Donkerstraat 17
3511 KB Utrecht.

Friends of the Earth
International Sec.,
Postbus 17170,
NL - 1001 JD Amsterdam.

KEMA, Research Institute for the
Electricity Producer,
Utrechtseweg 310, 6812 AR Arnhem.

Laboratory for Water, Soil and
Air Pollution, Municipal Health
Service, Nieuwe Achtergracht 100,
1018 WT Amsterdam.

National Institute of Public
Health, P.O. Box 1, 3720 BA
Bilthoven.

Research Institute for Environ-
mental Hygiene (TNC), Atmos-
pheric Pollution Division,
P.O. Box 214, 2600 AE Delft.

Society for Clean Air in
the Netherlands,
PO Box 186,
2600 AD Delft.
President: Dr. Lew A. Clarenburg

Stichting Concawe (International
Study Group for Conservation of
Clean Air and Water in Western
Europe),
Babylon-Kantoren A,
Koningin Julianaplein 30-9
2595 AA DEN HAAG.

Study and Information Centre TNO
on Environmental Research, P.O.
Box 186, 2600 AD Delft.

TNO-Project for Emission
Registration, P.O. Box 342,
7300 AH Apeldoorn.

NEW ZEALAND

New Zealand Clean Air Society
Inc., P.O. Box 2363, Christchurch,
New Zealand.

NORWAY

Institute of Preventive Medicine,
University of Oslo, Gydas Vei 8,
Oslo 3.

The State Pollution Control
Authority, Oslo Dept., Oslo 1.

Norwegian Institute for Air
Research, P.O. Box 130-2001
Lillestrom.

SINTEF, avd. 21, 7034, Trondheim
- NTH, Norway.

Norwegian Air Pollution Abatement
Society (NAPAS)
Norske Sivilingeniørers Forening,
Kronprinsens Gate 17,
Oslo 2.
Secretary: Alf Reistad.
Tel: Oslo 41.71.35.

PERU

Asociacion Peruana Para el Control
de la Contaminacion
del Aire (APPCCA)
Casilla No. 11246
Lima 14
Peru.
President: M.A. Vizcarra Andreu

SAUDI ARABIA

Meteorology and Environmental
Protection Administration (MEPA),
PO Box 1358,
Jeddah,
Saudi Arabia.
Director General: R.M. Romaih
Tel: 671 0448 or 671 0439.

SINGAPORE

Environmental Engineering
Society of Singapore,
Clean Air Section,
c/o Faculty of Engineering,
National University of Singapore,
Kent Ridge Campus,
Singapore 0511.
Prof. K.K. Chin/Dr. Raymond Heng.
Tel: 775 6666 ext. 406

SOUTH AFRICA

Atmospheric Sciences Division,
National Physical Research Labo-
ratory of the Council for Scien-
tific and Industrial Research,
P.O. Box 395, Pretoria, 0001.

Chemical Engineering Research
Group of the Council for
Scientific and Industrial
Research, P.O. Box 395, Pretoria
0001.

D. Giles & Co. (Scientific)
(Pty) Ltd., P.O. Box 3891,
Johannesburg, 2000.

National Association for Clean
Air, P.O. Box 5777,
Johannesburg 2000.
Director: Jack L. Easterbrook.
Tel: Johannesburg (011) 646 0616.

SWEDEN

National Swedish Environment
Protection Board, Box 1302,
S-171 25 Solna.

Swedish Water and Air Pollution
Research Laboratory, Box 5207,
S-40224 Gothenburg 5.

International Meteorological
Institute in Stockholm,
Arrheniuslaboratoriet,
S-10691 Stockholm.

Swedish Meteorological and
Hydrological Institute,
Box 923,
S-60119 Norrköping.
AB Bahco,
S-19981 Enköping.

AB Svenska Flaktfabriken,
Box 81001,
S-10481 Stockholm.

Swedish Society for the
Conservation of Nature,
PO Box 6400,
S-113 82 Stockholm.

SWITZERLAND

Arcadie,
Association contre la Pollution,
BP 103,
CH-1211 Geneva 20.

Cercl 'Air
Schweizerische Gesellschaft der
Lufthygieniker, Postfach 317
CH-4502 Solothurn,

Eidgenössische Kommission für
Lufthygiene, c/o Bundesamt für
Umweltschutz, CH-3003 Berne.

Schweiz. Gesellschaft für
Umweltschutz (SGU),
Merkurstrasse 45,
Postfach,
8032 Zürich.

Schweizerische Vereinigung für
Gesundheitstechnik (SVG), Post-
fach 305, CH-8035 Zurich.
President: W. Hess.

Schweizerische Vereinigung für
Gewässerschutz und Lufthygiene
(VGL), Postfach 3266,
CH-8031 Zürich.

Verein zur Förderung der Wasser-
und Lufthygiene (VFWL),
Spanweidstrasse 3,
8006 Zürich.

World Wildlife Fund,
WWF Schweiz,
Postfach,
CH-8037 Zürich.

THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

Environment and Human Settle-
ments Division, Palais des
Nations, 1211 Geneva 10,
Switzerland.
Director: C. Lopez-Polo.

U.S.A.

Air Pollution Control
Association, P.O. Box 2861,
Pittsburgh, P.A. 15230.
Executive Vice President:
Steve Hart.

Bituminous Coal Research Inc.,
350 Hochberg Road, Monroeville
PA 15146.

U.S. Environmental Protection
Agency, Waterside Mall, 401 M
Street, S.W., Washington, D.C.
20460.

Also:

Research Triangle Park, North
Carolina 27711.

Other U.S. Governmental Air
Pollution Agencies and individual
State Agencies are listed in an
annual Directory published by
the Air Pollution Control
Association in co-operation with
the U.S. Environmental Protection
Agency.

URUGUAY

Asociacion Uruguaya Contra la
Contaminacion del Aires, Calle
Colonia 1422, P.6, A 601 Monte-
video, Uruguay.
President: Dr. J.O. Ubios.

USSR

All Russian Society for
Conservation of Nature,
Proezd Kuibyshev 3,
Moscow K-12.

YUGOSLAVIA

Yugoslav Society for Clean Air,
71001 Sarajevo,
P.O. Box 79,
Masinski fakultat, Yugoslavia.
President: Prof. Milenko Krstic.

WORLD HEALTH ORGANIZATION DIVISION OF ENVIRONMENTAL HEALTH

Avenue Appia, 1211 Geneva 27,
Switzerland.
Dr. H.W. de Koning.

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on various pollution and environmental topics. Selected titles of products are given but for all other details enquirers should apply directly to the issuing organisation concerned.

Two or three weeks' notice should be given in advance of the date a film or video is required. Please note that 'sound' films should never be run on a silent projector.

FILMS & VIDEOS ON ENVIRONMENTAL SUBJECTS

BRITISH MEDICAL ASSOCIATION

BMA/BLAT Film Library,
BMA House,
Tavistock Square,
London WC1H 9JP
Tel: 01-388 7976

DO YOU MIND IF I SMOKE?
(The dangers of 'passive
smoking'.)

POLLUTION
(6 short 'spots' on pollution
problems and smoking)

BRITISH PETROLEUM

The BP Film Library,
15 Beaconsfield Road,
London NW10 2LE
Tel: 01-451 1129

COAL - THE BRIDGE
(Modern coal industry and its
important role in meeting future
energy demands)

ENERGY WITHIN REASON
(Conserving energy for the 21st
Century)

GAS - NATURALLY
(Blend of cartoon, historic and
modern film traces the growing
role of gas)

THE SHADOW OF PROGRESS
(The environmental problems of a

technological age and possible
remedies)

THE TIDE OF TRAFFIC
(Benefits and problems of the ever
increasing use of motor traffic)

THIS EARTH - THE INHERITANCE
(The use made of this planet's
resources today and the needs of
tomorrow)

CONCORD FILMS COUNCIL LTD

201 Felixstowe Road,
Ipswich,
Suffolk IP3 9BJ
Tel: (0473) 76012

A QUESTION OF KEEPING WARM
(District heating in Denmark)

ACID RAIN: REQUIEM OR RECOVERY
(The consequences of acid rain)

ACID RAIN - WHO CARES?
(How British pollution affects
Scandinavia)

CRISIS IN THE MALAYSIAN
ENVIRONMENT
(Problems of the Third World)

DOWN THE DRAIN
(Ecological consequences of
draining Broadland's marshes)

DUST TO DUST

(Documentary on dangers of asbestos - intended for local authorities, industry, etc)

SPLASH

(Cartoon on water pollution featuring The Droplets)

THE HAUNT OF MAN

(How man plunders earth's resources)

THE LAST STRAW

(The problems of straw burning and alternative methods of disposal)

TO BUILD A POLLUTION-FREE CAR
(Innovation in emission control)

ELECTRICITY COUNCIL FILM LIBRARY

30 Millbank,
London SW1P 4RD
Tel: 01-834 2333

ELECTRIC REVOLUTION

(Features the new electric commercial vehicle)

IT'S ELECTRIC

(Electricity supply industry, heat pumps and alternative energy sources)

GUILD SOUND & VISION LTD

6 Royce Road,
Peterborough PE1 5YB
Tel (0733) 315315

A FIGHT FOR BREATH

(How emphysema affects the respiratory system)

ALTERNATIVES

(Explores alternative energy sources)

TAKEN FOR GRANTED

(How Thames Water Authority process sewage)

THE CORROSION CHALLENGE

(Problems and solutions of corrosion)

THE RIVER THAT CAME CLEAN

(History of the Thames)

LOUGHBOROUGH UNIVERSITY**ENVIRONMENTAL FILMS**

Sonia Withers,
Centre for Extension Studies,
Loughborough University of
Technology,
Loughborough,
Leicestershire LE11 3TU
Tel: (0509) 263171 ext. 213 and
249

AIR POLLUTION

1. Sources and Effects
2. The Science of the Situation
3. Methods of Control

FILTRATION TECHNOLOGY

1. Filtration Systems
2. Laboratory Techniques
3. Pretreatment
4. Design of a Thickener
5. Choosing a Filter
6. Centrifuging

HAZARDS

1. Preventing Emergencies in the Process Industries
2. Hazardous Waste Management: People, Policies, Practice

NOISE

1. Noise and People
2. The Science of Sound
3. Control of Noise

WATER MANAGEMENT

1. Quality & Supply
2. Use & Treatment

MOTHERWELL BRIDGE TACOL LTD

Green Dragon House,
64/70 High Street,
Croydon,
Surrey CR0 1NA
Tel: 01-686 6917

DONCASTER REFUSE RECYCLING PLANT
NO TIPPING

NATIONAL COAL BOARD

Film Branch,
Hobart House,
Grosvenor Place,
London SW1X 7AE
Tel: 01-235 2020
Telex: 882161

HOMEFIRE - SMOKELESS FUEL FOR THE
OPEN FIRE

NOISE
(Introduction to noise control)

PENRHYS
(District heating scheme)

SFAS - SOLID FUEL ADVISORY SERVICE

THE SHAPE OF FUEL TO COME
(Work of Coal Research
Establishment)

THE SMOKE-EATER
(Smokeless appliance)

TIP RESTORATION
(Reclaiming colliery waste tips)

WELCOME HOME
(Solid Smokeless Fuel and the
Clean Air Act)

SHEFFIELD PUBLICITY OFFICE

Town Hall,
Sheffield S1 2HH
Tel: (0742) 734068 or 734130

CLEAN AIR CITY

SHELL FILM LIBRARY

25 The Burroughs,
Hendon,
London NW4 4AT
Tel: 01-202 7803

ENVIRONMENT IN THE BALANCE
(Discusses industrial expansion
and pollution)

EYE ON THE FUTURE
(The need for a low-energy future
and current developments)

FOR WANT OF WATER
(Cleaning up water supplies in
the Third World)

THE RIVER MUST LIVE
(The consequences of overloading
a river with waste)

THE SEA - OUR FUTURE
(Highlights problems of over-
fishing and disposal of waste)

TIME FOR ENERGY
(Discusses alternative energy
sources)

WRAPPING UP
(Energy conservation in the home)

VIEWTECH AUDIO-VISUAL MEDIA

161 Winchester Road,
Brislington,
Bristol BS4 3NJ
Tel: (0272) 773422 and 717030

ADAPTATION TO ENVIRONMENT
(The habitat of a nature reserve
in S.W. Spain)

ECOLOGY OF AGRICULTURE
(The effects of modern
agricultural methods)

LOVE YOUR LUNGS
(The dangers of smoking)

OF BROCCOLI & PELICANS & CELERY
& SEALS
(The contamination of the natural
food chain by pesticides)

PLANT-ANIMAL COMMUNITIES:

ECOLOGICAL SUCCESSION

(The long-term replacement of one form of vegetation by another)

THE ESTUARY

(Estuarine ecology and the influence of man)

THE MASS SPECTROMETER

(The application of mass spectrometry in industry and research)

THE NITROGEN CYCLE

THE PROBLEM OF REFUSE DISPOSAL

(Survey of refuse disposal methods today)

WHO NEEDS A CHIMNEY IN THE HEAD?

(Anti-smoking message)

VISCOM LTD

Film & Video Library,
Parkhall Road Trading Estate,
London SE21 8EL
Tel: 01-761 3035

BRITISH GAS FILMS

A SUN FOR ALL SEASONS

(Why the seasons change)

BE SAFE WITH GAS

(Do's and don'ts of using gas)

CO POISONING

(Highlights problem of carbon monoxide poisoning - intended for professionals)

ENERGY IN TIME

(Computer becomes time machine to teach boy about energy conservation)

I'M GLAD YOU ASKED THAT QUESTION

(Cartoon about natural gas)

NOW & THEN

(Light-hearted look at history of gas industry)

ON THE GAS - RECALL 1 & 2

(Retrospective on gas - from street lighting to theatre footlights)

THE WASTEFULS - SAVE THEIR ENERGY

(Puppets and music encourage energy conservation)

THERE WILL BE GAS

(All aspects of gas industry, including noise suppression and electronics)

WHY DON'T YOU PAINT IT GREEN?

(Gas industry's efforts to protect environment)

W.I.S.E. WITH GAS

(How Women Into Science & Engineering scheme is supported by British Gas)

CEGB FILMS & VIDEOS

A TRICK OF THE LIGHT

(Controlling chimney emissions from power stations)

ACID RAIN

ANOTHER SAFE JOURNEY

(Transportation of irradiated nuclear fuel)

ELECTRIC MOUNTAIN

(The Dinorwig hydro-electric power station)

OPERATION SMASH HIT

(The train crash test for the safety of nuclear fuel transportation flasks)

OPPORTUNITY AT SIZEWELL

(Why CEGB wants a PWR at Sizewell)

POWER TO THE PEOPLE

(Looks at the National Grid)

SAFETY FIRST

(Design, construction and operation of nuclear power stations)

SEARCH FOR A SITE
(Finding new power station sites)

THE BALANCED JUDGEMENT
(Producing electricity with concern for the environment)

OTHERS

FLOODING RIVER
(Need to understand rivers before further damage done)

INTO THE DEEP
(Extracting oil from deep water fields)

RECOVERY & TREATMENT OF EMULSIONS
(Combatting oil pollution at sea and on beaches)

THE OIL STORY
(Cartoon explaining origins of oil)

THE RIDDLE OF THE DEEP
(Oil industry technology in exploration and offshore production)

TOTAL A L'HEURE SOLAIRE
(Total's involvement in solar energy)

VERY VERSATILE MOLECULES
(Cartoon of what happens in an oil refinery)

BARRY WILES FILMS

London Road Trading Estate,
Sittingbourne,
Kent ME10 1NQ

IF YOU CAN KEEP YOUR COOL
(Air conditioning)

NOW AND THEN
(Development of British Gas Industry)

GENERAL AUDIO-VISUAL TEACHING AIDS (FILMSTRIPS, SLIDES, CASSETTES ETC.) ON ENVIRONMENTAL SUBJECTS

(N.B. Items listed are filmstrips/ slide sets unless otherwise stated)

AEROFILMS LTD

Gate Studios,
Station Road,
Boreham Wood,
Herts. WD6 1EJ
Tel: 01-207 0666

EXTRACTION, CONSERVATION & POLLUTION
(Set of 24 photographs)

CAMERA TALKS LTD

31 North Row,
London W1R 2EN
Tel: 01-493 2761

A GUIDE TO THE HEALTH & SAFETY AT WORK ACT 414 PARTS 1-3

NOISE & HEARING 263 PARTS 1&2

POLLUTION - CAUSES & EFFECTS 307

THE ENVIRONMENTAL HEALTH OFFICER 332

TREATMENT OF SEWAGE & OTHER USED WATERS 339/7

DRAKE EDUCATIONAL PRODUCTIONS

St. Fagan's Road,
Fairwater,
Cardiff CF5 3AE
Tel: (0222) 560333

COAL, PETROLEUM AND METHANE

ECOLOGY OF A CANAL

MAN AND HIS ENVIRONMENT

OUR CLIMATE AND WEATHER

THE WATER CYCLE
(Slide set)

INTERNATIONAL CENTRE FOR
CONSERVATION EDUCATION

Greenfield House,
Guiting Power,
Cheltenham,
Glos. GL54 5TZ
Tel: (045 15) 549

A GREEN EARTH ... OR A DRY
DESERT? AVP 067

ACID RAIN - THE SILENT CRISIS
AVP 079

HELP SAVE THE WORLD AVP 056
(Multi-media kit on World
Conservation Strategy)

PLANNING FOR SURVIVAL AVP 077

RENEWABLE ENERGY FOR TODAY &
TOMORROW AVP 069

SAVING THE PLANTS THAT SAVE US
AVP 076

WHY CONSERVE WILDLIFE? AVP 002

PICTORIAL CHARTS EDUCATIONAL TRUST

27 Kirchen Road,
London W13 0UD
Tel: 01-567 9206 & 5343

POLLUTION
(Photopack surveying main forms
of pollution)

RESPIRATION
(Pictures, chart and notes on
pollution and respiration)

VIEWTECH AUDIO-VISUAL MEDIA

161 Winchester Road,
Brislington,
Bristol BS4 3NJ
Tel: (0272) 773422 and 717030

ECOLOGY: BALANCE OF NATURE
(Interactions of food chains,
disease, weather, chemical
cycles, etc)

ECOLOGY: SPACESHIP EARTH
(Problems of pollution, over-
population and consumption)

DIANA WYLLIE LTD

Unit 8, Peverel Drive,
Granby,
Milton Keynes MK1 1NL

A SCREEN COLOUR GUIDE TO CLOUDS
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Power with preservation.

Modern living calls for lots of power. That means power stations and power lines.

But people care about the quality of life and of their landscape too. So does the CEGB. That is why, as a good neighbour, the Board has received more than 50 awards for keeping the lowest of profiles. By moulding its structures into the countryside.



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Telex: 557227

Airmaster

Air pollution control equipment, including bag houses, dust collectors, fabric filters, flue dust extraction plant and gas cleaning plant.

AMBUCCO DIVISION

EIMCO PROCESS EQUIPMENT LTD

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Telex: 32678

Designers and suppliers of a complete range of fume and dust collection equipment including high efficiency cyclones, multicyclones, fabric filters, venturi and adsorption scrubbers and grit collectors. Other associated products include fluidised bed dryers and coolers, powder classification and liquid - solid separation equipment.

ANALYSIS AUTOMATION LTD

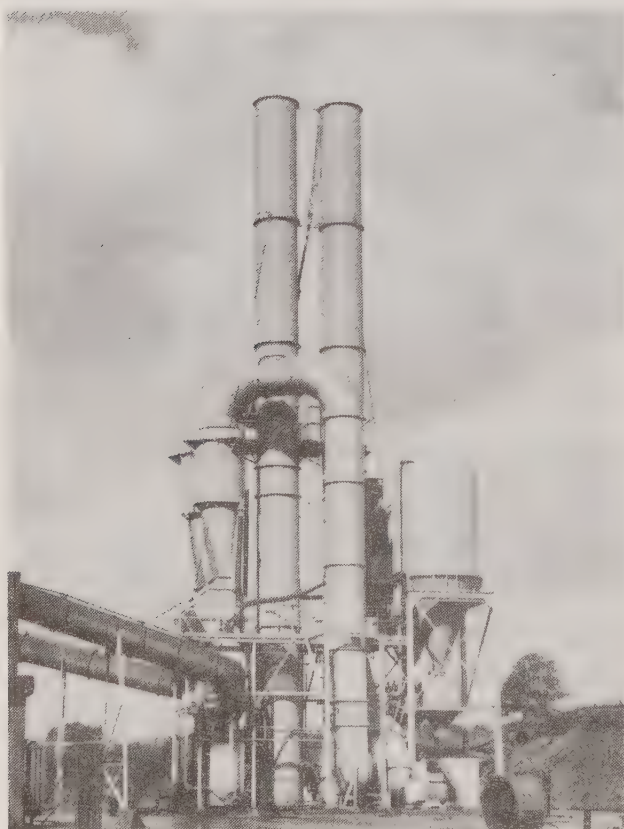
Southfield House, Eynsham,
Oxford OX8 1JD
Tel: Oxford (0865) 881888
Telex: 837509

Analysis Automation Limited manufacture and market the widest range of analysers for air pollution, emission monitoring, industrial safety and process control, available in the U.K.. In addition to the supply of analysers, AAL build complete analytical systems and mobile laboratories, including sampling systems, calibration facilities and data handling.

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Telex: 444181

Manufacture and sales of laboratory filtration fume cupboards, air purifiers, laboratory and industrial scrubbing systems; also semiconductor scrubbing systems



used with semiconductor fabrication equipment, and clean air workstations.

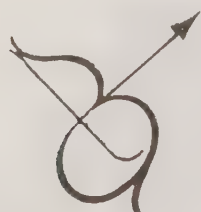
CHARLES AUSTEN PUMPS LTD

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43224
Telex: 928368

Manufacturers of oil-free diaphragm pumps for vacuum and pressure, liquid centrifugal pumps and air sampling equipment.

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As the largest manufacturers and erectors of industrial steel chimneys in the U.K., Beaumonts continue to manufacture all types of chimneys, many of which can be designed to incorporate the Beauvent G.S.C. The G.S.C. is a low cost, high efficiency cyclone which prevents most of the unburnt solids produced in oil fired burning from being emitted into the atmosphere.

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BES Ltd manufacture and market a microprocessed based Environment Monitoring System. The system is highly configurable, and provides the user with instant graphical and numerical reports based on data accumulated on disk. The system can be routinely configured to handle a variety of parameters, including air quality, stack emissions, noise, wind speed, wind direction, temperature and rainfall.

A basic system might consist of a single Remote Data Acquisition Unit (RDAU) and a Master Station, whereas a more sophisticated telemetry system, with many RDAUs linked to the Master via BT lines is available. Standard systems incorporate a highly flexible, and user definable data analysis and reporting package, but our in house software expertise allows enhancements and modifications to be easily accommodated if necessary.

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Research, development, consultancy and services for the Metals industries, covering all aspects of their production and use.

S.B. BOOTH & CO.

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Telex: 668230 MILINK G

Formed in 1971 as specialist Chartered Engineers, providing on-site evaluation and problem solving in industrial dust and fume applications, including investigation and testing with technical specifications, design and/or detail drawings and cost estimates. Service now extended to include international trouble shooting, project and site management commissioning and testing. Broad based industrial/manufacture dust/fume producing plant experience. All senior staff fully qualified and conversant with industrial/commercial requirements. Will work with clients' own staff/sub-contractors/suppliers/installers.

BOSTOCK HILL & RIGBY LTD

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Telex: 337273

Environmental Protection Services

The scientific consulting companies, Bostock Hill and Rigby, Thresh Beale and Suckling, and ICLS Laboratories Ltd., now offer their services under the title Bostock Hill & Rigby Ltd. Both a national and an international service is operated from Birmingham, U.K.

The group's services include atmospheric pollution studies (of solvents, dusts, asbestos, metals and fumes) with surveys and analysis undertaken, liaison with

HSE, EMAS and other regulating bodies, and preparation of safe handling procedures for dangerous materials. Examination, survey and design of remedial measures for contaminated sites including assessment of hazards and supervision of remedial work. A similar service is available for water and effluent problems; also analysis of foodstuffs, beverages, water, chemicals, pharmaceuticals, fuels and soil. The group is expanding into new fields; energy conservation, virology and EIA.

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BRD (Air conditioning) Limited are the largest UK distributors of British manufactured Air Conditioning and Heat Pump equipment including the following: Qualitair, Myson, Marstair, Prestair, R.A. (Air Conditioning) Co. and Calder.

Additional products include Humidifiers, Dehumidifiers, Condensate Pumps and a variety of Air Conditioning controls.

BRISTOL INDUSTRIAL & RESEARCH
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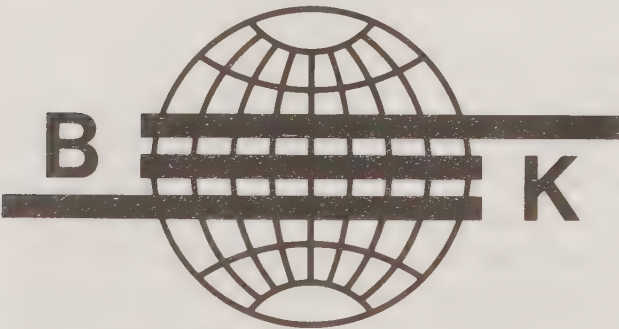
6 Combe Road, Portishead,
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Tel: Portishead (0272) 847787
Telex: 444214



Distributors of scientific equipment, specialising in equipment for the detection and measurement of airborne pollution.

BRUEL & KJAER (UK) LTD

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HA3 6BZ
Tel: 01-954 2366
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Telefax: 01-954 9504



Specialists in equipment manufactured for the measurement, analysis and recording of noise and vibration. A full range of major items of equipment is available, supplemented by a variety of accessories.

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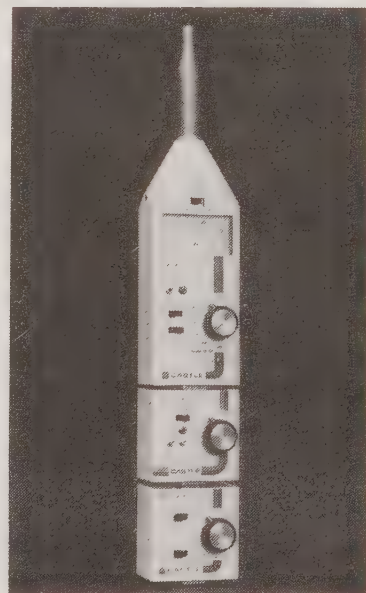
Regent House, Britannia Walk,
London N1 7ND
Tel: 01-253 8581
Telex: 26 16 41



Manufacturers of instruments for sampling industrial air pollution including dusts, asbestos, lead, gases, chemicals and fumes - wherever the pollutant is harmful to the health of workers or to the quality of a product. Also included is a wide range of meteorological instruments for measuring and recording environmental factors such as temperature, humidity and airflow.

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Telex: 527244 Castle G



Castle Associates is an independent British firm which has been manufacturing noise and vibration measuring and control products since 1971. A full calibration service is available at the company's modern factory in Scarborough; the company also offers acoustic consultancy and noise control services.

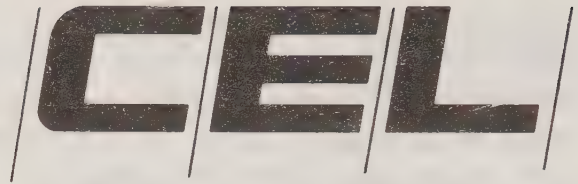
COALITE FUELS & CHEMICALS LTD
P.O. Box No. 21, Chesterfield,
Derbyshire S44 6AB
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822281/9
Telex: 54250



The Company, part of Coalite Group PLC, manufactures 'Coalite' smokeless coal and is Britain's largest independent producer of solid smokeless fuel for open fires, roomheaters and boilers. There are two works in Yorkshire and also one at Bolsover, Derbyshire, which is linked to Coalite's own refinery.

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CEL is an engineering and contracting company providing design, engineering, management, procurement and commissioning services for the textiles and fibres, fine and heavy chemicals plastics, paint, brewing, food



processing, pharmaceuticals, wood pulp, paper and metal refining industries. They are registered by the Government as consultants for MAPCON and energy conservation, as well as being internationally recognised for their specialist knowledge in effluent treatment and solvent recovery.

DCE GROUP LTD
Thurmaston, Leicester LE4 8HP
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Telex: 342409 DUST G
Telefax: (0533) 693028



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Compressed air, gas and liquid filtration. High and low pressure

breathing air treatment packs for safe breathing in hazardous environments. PNEUDRI adsorption compressed air dryers for efficient running of systems up to 2400 scfm. Comprehensive range of filtration products to cover most customer applications.

systems and mobile laboratories. To complete our range we offer full environmental data acquisition with central computer recording and reporting of data if required. Finally, we provide an after sales service which is second to none.

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Telex: 43432 DSA G

EPEMA

ENVIRONMENTAL PROTECTION EQUIP-
MENT MANUFACTURERS ASSOCIATION
136 North Street,
Brighton BN1 1RG
Tel: Brighton (0273) 26313



Enviro Technology - Specialists in Air Pollution Monitoring Equipment market a wide range of air quality analysers which are approved and used throughout the U.K. and the rest of the world. Our range includes analysers for NOx, SO₂, O₃, H₂S, CO, NH₃, Hg, Dust, Toxic Gases, etc. together with calibrators and sampling systems. Our instruments are all manufactured to exacting standards to give the maximum valid data and highest possible reliability. E.T. are happy to assist with any aspect of Air Quality Monitoring from the supply of a single analyser through to the design and build of complete analysis



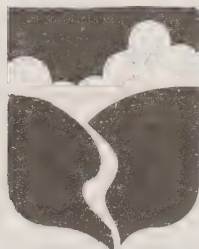
EPEMA was inaugurated in September 1972 under the auspices of NSCA. EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.

The Association ensures that its members manufacture, market and install equipment of the required standard.

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Systems. Total service capability, including design, installation and commissioning ensures that each system is specifically engineered to suit each application. A member company of The Environmental Resource Group, the leading exponents in Effluent Treatment and Metal Recovery.

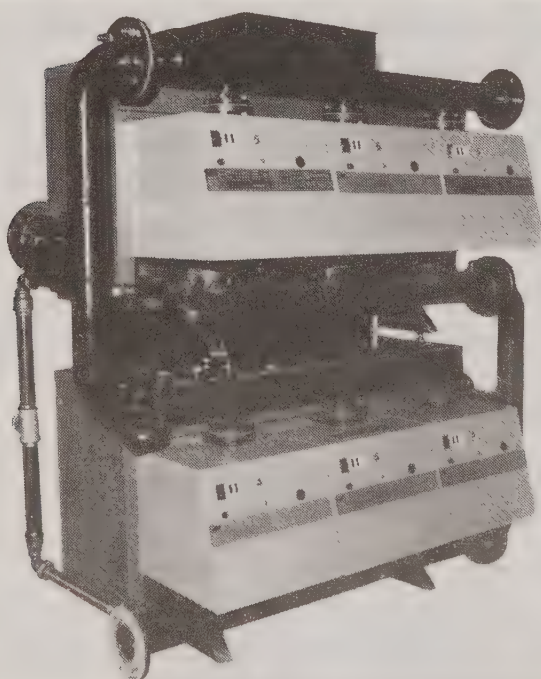
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HAMWORTHY



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From the broad base of burner products Hamworthy has also developed considerable skill and expertise in the design and building of burner management, flame failure and combustion control systems. Applications of the company's techniques and technology are wide ranging, covering off-shore oil production, marine, steam raising and process industries.

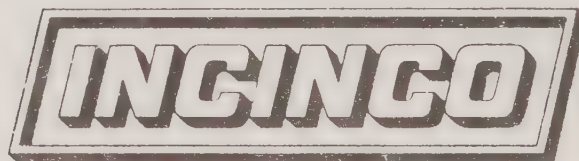
The Pump & Compressor Division of Hamworthy manufactures a wide range of pumps and compressors for marine and industrial use in addition to sewage treatment plant, incinerators and anaerobic digesters to obtain methane and enriched fertilizer from animal and industrial wastes.

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Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional,

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Telex: 25518
Telefax: (0784) 63303



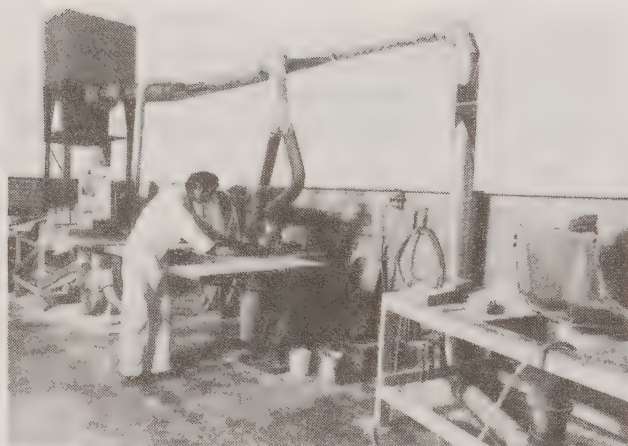
Industrial Acoustics Company
are the largest concern in the
world solely engaged in the design,
manufacture and installation of all
forms of noise control products and
complete systems. The Company
serves virtually all spheres of
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control engineering.

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Photograph: New DUSTMASTER



system featuring high
performance, centralised dust
pollution control with
re-circulation of clean air to
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EQUIPMENT

A complete range of air pollution
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effective and economic control of
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Lodge-Cottrell**DRESSER**

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houses, cyclones, dryers, gas
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A comprehensive range of
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Medion are manufacturers of the
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Equipment for use in commercial,
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Negative ions reduce stuffiness,
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concentration, health and
efficiency.



Photograph: A combined Air-
cleaner & Ionizer revitalizing
the air in a West End Health and
Beauty Salon.

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Telex: 341401 J.J. INT.G.

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scrubbers of the venturi and
impingement type; electrostatic
precipitators of package design;
acoustic enclosures; fume
ventilation systems.

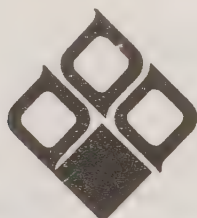
NEW AIR TECHNICAL SERVICES LTD

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Telex: 341448 NEWAIR G

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Domestic Solid Smokeless Fuels and Industrial Chars, produced at Ollerton in Nottinghamshire, and Comrie, Nr. Dunfermline in Scotland.

Rexco Limited is a subsidiary of Burnett & Hallamshire Holdings PLC.

In Scotland and the North of England, Rexco, for open fires; Rexcobrite, for room heaters, boilers and cookers. In the remainder of England and Wales, Royal for open fires and Rexco Nuts, for room heaters, boilers

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Both the English and Scottish units produce Industrial Chars, with a range of uses as wide as furnace fuel, brick manufacture and as a reducing agent for the production of ferro alloys.

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Servomex

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Tel: Camberley (0276) 682841
Telex: 859035 SIGNAL G



Signal Instruments are a specialist manufacturer and exporter of flue gas air pollution instruments and calibration equipment. In particular they make SO₂, NO_x and Hydrocarbon Analysers. They are a British Company with approximately 40% of production going to export.

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Telex: 41589

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STATS asbestos services dept. carries out full building surveys and has full laboratory facilities for asbestos identification and air monitoring. STATS asbestos services are also able to undertake on site membrane filter counting.

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Chapelton,
Sheffield S30 4YP
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(0742)452791 (customer services)
Telex: 547096

Sterling Industrial

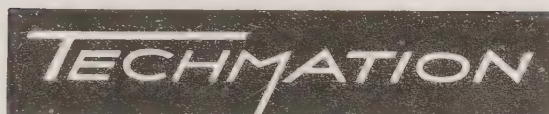
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Zal-Air odour counteractants are specifically formulated to counter virtually any industrial or agricultural mal-odour. The smells are not merely masked but fully neutralised.

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instruments.

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Telex: 8954985 HAIL G

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both on-line and laboratory
systems.

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Uniscience Ltd, a company
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offer two GAS SAMPLERS which are
easy to use compact units,
featuring temperature correction

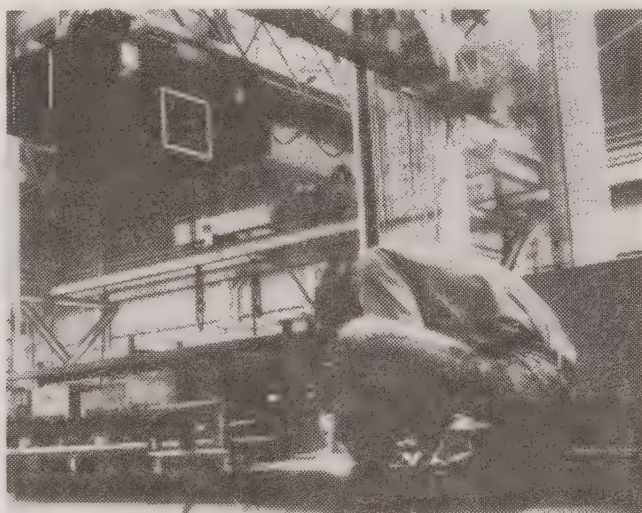
of sample volume and physically
correct gas volume determination.
The 'Standard' model GS 212 can
be used for the majority of
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measurements.

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temperature measuring system
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311621
Telex: 311665 UASUK G

Manufacturers of the SMOG-HOG
Electronic Air Cleaner for
collecting welding fumes, oil
mist and general airborne dust.
Collection efficiency enables
cleaned air to be recirculated
to workshop area, thus obviating
heat losses.



Photograph: SMOG-HOG 'free-
hanging' unit collecting welding
smoke.



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Surrey GU7 1DU
Tel: Godalming (048 68) 28082
Telex: 859487



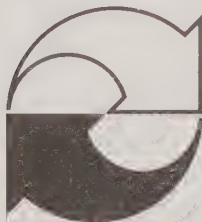
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Cyclones; Dust Collection Equipment and Plant; Effluent Treatment: Plant/Systems; Flue Dust Extraction Plant; Fugitive Dust Sampling; Fume Removal Equipment; Gas Cleaning Plant; Grit Arrestors; Scrubbers; Wet Arrestors; Particle Size Analysis Facilities.

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"Energy" by Rear Admiral P.G. Sharp and Harry Brown
"Nuclear Power" by Dr. Michael Flood



Photograph: Condensation in power station plume from the colour filmstrip/slide set AIR POLLUTION-PART 2.

"The Air You Breathe" by
Rear Admiral P.G. Sharp
"Air Pollution" by
Professor R.S. Scorer
"Weather Study with Satellites"
by Professor R.S. Scorer
"Water Pollution" by
J. Ian Waddington
"Waste and Re-Cycling"
by Tom Burke
"Population and Resources"
by Mary Campbell
"Nature Conservation in the
British Isles" by Dr. D.H. Dalby
"Man-Made World" by John Donat
"New Life for Old Buildings"
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some with cassette commentaries.

Write for details.

ANC

The Association of Noise Consultants

The Association was founded in 1973 as a corporate body which controls and continually seeks to improve the standard of service offered by Consultants.

Membership consists of firms with large, medium and small numbers of qualified experts and technical assistants. Their services span the complete range of Noise and Vibration Control, Measurement, Analysis, Prediction, Planning and Design. Evidence for Litigative and Planning Inquiry matters are generally offered as well as Specialist Courses and provision of Computer Software. All member firms have no financial interests in companies supplying noise or vibration control hardware products. For further information and list of member addresses write to:

**THE HONORARY SECRETARY
THE ASSOCIATION OF NOISE CONSULTANTS
6 LONG LANE, LONDON, EC1A 9DP.**

*Acoustical Investigation and Research Organisation Ltd. (AIRO). APT Acoustics.
Atkins Research and Development. Bickerdiike Allen Partners. Grootenhuis Allaway Associates.
Hann Tucker Associates. W.A. Hines & Partners. Technica Indicon Ltd. McClaren Ward and
Partners. Travers Morgan Planning. Sandy Brown Associates. Rupert Taylor F.I.O.A. Hugo
Verhas. The Walker-Beak-Mason Partnership. Wolfson Unit for Noise and Vibration Control.
Andrew Conrad. Sound Research Laboratories.*

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ERG Odour Purification Systems

ACOUSTIC CONTRACTORS

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NAIRB Air Ltd.

Visco Ltd.

AIR CLEANERS: MULTI-STAGE

Medion Ltd.

AIR CONDITIONING EQUIPMENT

BRD (Air conditioning) Ltd.

Lucas Dawe Ultrasonics Ltd.

AIR FLOW INDICATORS

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Associates Ltd.

Casella London Ltd.

AIR FRESHENER SPRAY FLUIDS

Sterling Industrial

AIR IONIZERS

Medion Ltd.

AIR POLLUTION CONTROL

Airmaster Engineering Ltd.

Ambuco Division,

EIMCO Process Equipment Ltd.

Charles Austen Pumps Ltd.

BNF Metals Technology Centre

S.B. Booth & Co.

Bostock Hill & Rigby Ltd.

ERG Odour Purification
Systems

Johnson Matthey Chemicals Ltd.

Lodge-Cottrell, Division of
Dresser UK Ltd.

NAIRB Air Ltd.

New Air Technical Services Ltd.

United Air Specialists (UK) Ltd.

Visco Ltd.

AIR POLLUTION MEASUREMENT

Analysis Automation Ltd.

B.E.S. Ltd.

BNF Metals Technology Centre

Bostock Hill & Rigby Ltd

Bristol Industrial & Research
Associates Ltd.

Casella London Ltd.

Enviro Technology Services Ltd.
Servomex Ltd.

Signal Instrument Co. Ltd.

Techmation Ltd.

Uniscience Ltd.

AIR POLLUTION MONITORING:

MOBILE LABORATORIES

Bostock Hill & Rigby Ltd.

Enviro Technology Services Ltd.

Signal Instrument Co. Ltd.

AIR POLLUTION MEASUREMENT

Analysis Automation Ltd.

BNF Metals Technology Centre

Bostock Hill & Rigby Ltd.

Bristol Industrial & Research
Associates Ltd.

Casella London Ltd.

Enviro Technology Services
Ltd.

Servomex Ltd.

Signal Instrument Co. Ltd.

Techmation Ltd.

Uniscience Ltd.

AIR POLLUTION MONITORING:

MOBILE LABORATORIES

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Enviro Technology Services Ltd.

Signal Instrument Co. Ltd.

AIR POLLUTION MONITORING:

SYSTEMS & NETWORKS

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Enviro Technology Services Ltd.

Signal Instrument Co. Ltd.

Techmation Ltd.

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ERG Odour Purification Systems
Johnson Matthey Chemicals Ltd.
NAIRB Air Ltd.

AIR VELOCITY METERS

Bristol Industrial & Research
Associates Ltd.

ANALYSIS APPARATUS: AEROSOLS

Analysis Automation Ltd.
Bristol Industrial & Research
Associates Ltd.
Servomex Ltd.
Techmation Ltd.

ANALYSIS APPARATUS: AIR IONS

Medion Ltd.

ANALYSIS APPARATUS: CHEMICALS

Servomex Ltd.
Techmation Ltd.

ANALYSIS APPARATUS: FUELS

Techmation Ltd.

ANALYSIS APPARATUS: GASES

Analysis Automation Ltd.
Enviro Technology Services
Ltd.
Servomex Ltd.
Signal Instrument Co. Ltd.
SKC Ltd.
Techmation Ltd.

ANALYSIS APPARATUS: NOISE/VIBRATION

Bruel & Kjaer (UK) Ltd.

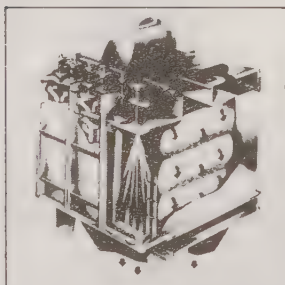
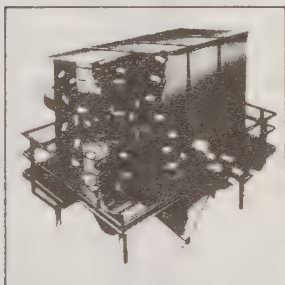
ANALYSIS APPARATUS:

PARTICLES/POWDERS

Techmation Ltd.

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Techmation Ltd.



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S.B. Booth & Co.
Bostock Hill & Rigby Ltd.
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Uniscience Ltd.

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SKC Ltd.

ASH HANDLING PLANT

New Air Technical Services Ltd.

AUTOMOTIVE EMISSION CONTROL
DEVICES

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Signal Instrument Co. Ltd.

BACTERIA SAMPLING EQUIPMENT

Casella London Ltd.

BADGES: GAS SAMPLING

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BAG HOUSES

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Equipment Ltd.
Lodge-Cottrell, Division of
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NAIRB Air Ltd.
New Air Technical Services Ltd.

BLOWERS

New Air Technical Services Ltd.

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Bostock Hill & Rigby Ltd.

BOILERS: GAS FIRED

Hamworthy Engineering Ltd.

BOILERS: INDUSTRIAL, WASTE-FIRED

New Air Technical Services Ltd.

BOILERS: PACKAGED, OIL FIRED

Hamworthy Engineering Ltd.

BURNERS: CATALYTIC

Johnson Matthey Chemicals Ltd.

BURNERS: GAS

Hamworthy Engineering Ltd.

BURNERS: OIL

Hamworthy Engineering Ltd.

BURNERS: WASTE-FIRED

New Air Technical Services Ltd.

CANOPY HOOD

Ambuco Division, EIMCO Process
Equipment Ltd.
NAIRB Air Ltd.

CATALYSTS

Johnson Matthey Chemicals Ltd.

CATALYTIC AIR POLLUTION CONTROL
UNITS

Courtaulds Engineering Ltd.
Johnson Matthey Chemicals Ltd.
Signal Instrument Co. Ltd.

CHIMNEYS

F.E. Beaumont Ltd.

CHIMNEYS: CLADDING, ALUMINIUM

F.E. Beaumont Ltd.
New Air Technical Services Ltd.

CHIMNEYS: INSULATED

F.E. Beaumont Ltd.
New Air Technical Services Ltd.

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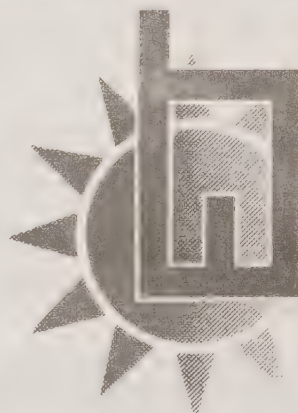
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 117 Bath Road, Stroud
 Gloucestershire GL5 3QF.

Tel: Stroud (04536) 71641 3 lines

Easylink No: 19010445

Telex: 946240 CWEASY G,-quoting 19010445



CLEAN ROOMS

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COMBUSTION CATALYSTS

Johnson Matthey Chemicals Ltd.

COMBUSTION CONTROL

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Hamworthy Engineering Ltd.
Servomex Ltd.

COMBUSTION TESTING EQUIPMENT

Servomex Ltd.

COMPRESSED AIR DRYERS

Domnick Hunter Filters Ltd.

COMPRESSORS: CENTRIFUGAL

Charles Austen Pumps Ltd.

COMPRESSORS: OIL FREE

Charles Austen Pumps Ltd.
Hamworthy Engineering Ltd.

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Equipment Ltd.
S.B. Booth & Co.
Bostock Hill & Rigby Ltd.

CONSULTING ENGINEERS: NOISE

Bostock Hill & Rigby Ltd.
Industrial Acoustics Company Ltd.

CONSULTING ENGINEERS: RADIATION

Bostock Hill & Rigby Ltd.

CONSULTING ENGINEERS: WASTE

Bostock Hill & Rigby Ltd.
New Air Technical Services Ltd.

CONSULTING ENGINEERS: WATER

Bostock Hill & Rigby Ltd.

CONTROLLERS: GAS PRESSURE

Techmation Ltd.

CONVEYORS: FLUIDISED SOLIDS

JENCO Material Handling
Specialists

COOLERS: SOLIDS

Ambuco Division, EIMCO Process
Equipment Ltd.

COOLERS: SPRAYS

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COOLING TOWERS

Lucas Dawe Ultrasonics Ltd.
Visco Ltd.

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Ambuco Division, EIMCO Process
Equipment Ltd.
F.E. Beaumont Ltd.
S.B. Booth & Co.
Casella London Ltd.
ERG Odour Purification Systems
Lodge-Cottrell, Division of
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NAIRB Air Ltd.
New Air Technical Services Ltd.
Van Tongeren International Ltd.

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Enviro Technology Services Ltd.
Techmation Ltd.

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Bristol Industrial & Research
Associates Ltd.
Techmation Ltd.

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Analysis Automation Ltd.
Servomex Ltd.

DETECTORS: MERCURY VAPOUR

Enviro Technology Services Ltd.
SKC Ltd.

DETECTORS: SO₂

Analysis Automation Ltd.
Casella London Ltd.
Enviro Technology Services Ltd.

Servomex Ltd.
Techmation Ltd.

DETECTORS: TOXIC GASES

Analysis Automation Ltd.
Enviro Technology Services Ltd.
Servomex Ltd.
SKC Ltd.
Techmation Ltd.
Tracor Atlas Ltd.

DISCHARGE VALVES

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Dresser UK Ltd.

DRYERS: AIR

Lodge-Cottrell, Division of
Dresser UK Ltd.

DRYERS: AIR, COMPRESSED

Domnick Hunter Filters Ltd.

DRYERS: FLUIDISED BED

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Equipment Ltd.
Lodge-Cottrell, Division of
Dresser UK Ltd.

DUCTING

ERG Odour Purification Systems
New Air Technical Services Ltd.

DUST CLASSIFICATION PLANT

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Equipment Ltd.
Lodge-Cottrell, Division of
Dresser UK Ltd.

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Ambuco Division, EIMCO Process
Equipment Ltd.
Astec Environmental Systems Ltd
DCE Group Ltd.
Lodge-Cottrell, Division of
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NAIRB Air Ltd.
New Air Technical Services Ltd.

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Equipment Ltd.
S.B. Booth & Co.
DCE Group Ltd.
ERG Odour Purification Systems
JENCO Material Handling Specialists
Lodge-Cottrell, Division of Dresser
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NAIRB Air Ltd.
New Air Technical Services Ltd.
Van Tongeren International Ltd.
Visco Ltd.

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Ambuco Division, EIMCO Process
Equipment Ltd.
DCE Group Ltd.
Lodge-Cottrell, Division of Dresser
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NAIRB Air Ltd.
New Air Technical Services Ltd.

DUST COLLECTOR FILTER MEDIA

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DUST EXTRACTION, CYCLONES

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Equipment Ltd.
Lodge-Cottrell, Division of
Dresser UK Ltd.
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Visco Ltd.

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Erwin Sick Optic Electronic Ltd.
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DUST SAMPLING EQUIPMENT

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New Air Technical Services Ltd.
Visco Ltd.

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Equipment Ltd.
Bostock Hill & Rigby Ltd.
Hamworthy Engineering Ltd.
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FILTER FABRICS

New Air Technical Services Ltd.

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Visco Ltd.

FILTERS: AIR: COMPRESSED

Domnick Hunter Filters Ltd.
Visco Ltd.

FILTERS: DUST

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DCE Group Ltd.
JENCO Material Handling
Specialists
NAIRB Air Ltd.
New Air Technical Services Ltd.
Visco Ltd.

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United Air Specialists (UK) Ltd.

FILTRATION EQUIPMENT

Uniscience Ltd.

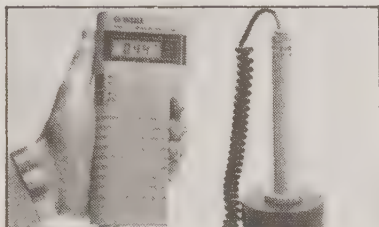
FLOW INDICATORS

Techmation Ltd.

FLUE DUST EXTRACTIONPLANT

Airmaster Engineering Ltd.
Ambuco Division, EIMCO Process
Equipment Ltd.

Humidity & Temperature Measurement



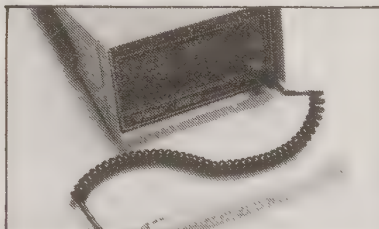
The Portable HM 31 covers the range 0–100% R.H. within an operating temperature range of -40°C to $+80^{\circ}\text{C}$.



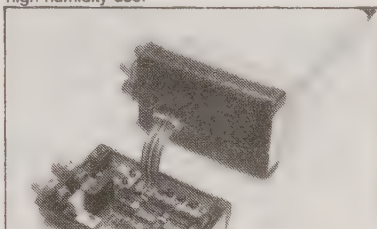
The New HUMICAP Humidity Sensor features increased long-term stability, unmatched accuracy and performance including high temperature and high humidity use.



The HMP 111Y and HMP 112Y Humidity and Temperature Probes are for wall and duct mounting respectively.



The mains or battery operated HMI 32 Indicator Unit records output signals for both humidity and temperature.



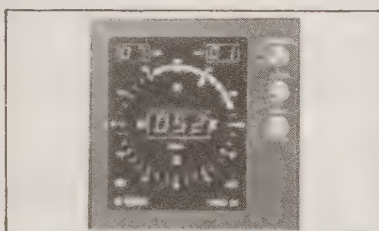
The combined HMP 122Y and HMR 120 permits localised on/off control with L.E.D. indication.



The HMH-14UTA High Temperature Probe with Transmitter with an operating temperature range of -40°C to $+115^{\circ}\text{C}$.

Vaisala's comprehensive range of instruments includes measuring probes used in Industrial and O.E.M. applications for wall and duct mounting, portable and bench top use. The Humidity Sensor sets new standards in precise measurement for MONITORING, CONTROL and RECORDING applications.

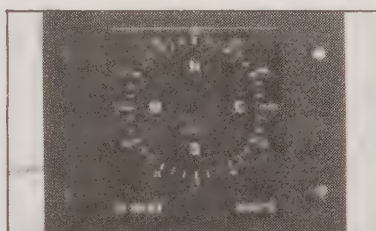
Wind Speed & Direction Measurement



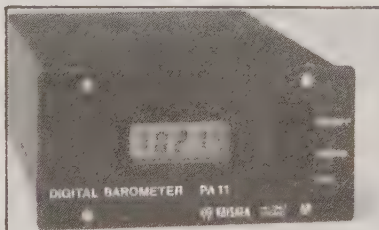
The WAD 21 Wind Speed and Direction Measurement System gives the instant values as well as two and ten minute averages.



The RS 80 range of Radiosondes are light and safe to use, allowing high resolution. They are easy to launch by one person and use small meteorological balloons.



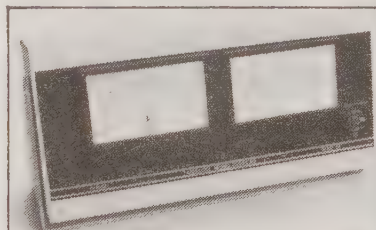
The WAD 13 is an instantaneous wind speed and direction indicator. Several indicators can be used in parallel from a single pair of sensors.



The unique three sensor construction of the Digital Barometer, PA 11, ensures excellent reliability and long-term stability.



Vaisala WA Wind Measurement System showing opto-electronic anemometer and wind vane sensors.



The WAD 14 Analog Wind Display Unit has a special logic for wind direction and also displays wind speed.

Surface weather measuring and monitoring needs are fully catered for within the diverse range of equipment from Vaisala. When accurate and reliable wind speed and direction measurements are required, the Vaisala range is unique.



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 Lodge-Cottrell, Division of
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 Ambuco Division, EIMCO Process
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 Van Tongeren International Ltd.

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Equipment Ltd.MERCURY VAPOUR MONITORS

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Servomex Ltd.

SKC Ltd.

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Industrial Acoustics Company Ltd.

Visco Ltd.

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Ltd.

Visco Ltd.

NOISE/VIBRATION ATTENUATIONIndustrial Acoustics Company
Ltd.

Visco Ltd.

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ENGINEERS

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Visco Ltd.

NOISE/VIBRATION: CONTROL SYSTEMS

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Industrial Acoustics Company Ltd.

Visco Ltd.

NOISE/VIBRATION: MEASURING
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Castle Associates Ltd.

NOISE/VIBRATION: PROTECTIVE
DEVICES

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ODOUR ADSORPTIONAmbuco Division, EIMCO Process
Equipment Ltd.

Astec Environmental Systems Ltd.

ERG Odour Purification Systems

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ERG Odour Purification Systems

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NAIRB Air Ltd.

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Techmation Ltd.

Tracor Atlas Ltd.

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Analysis Automation Ltd.

Servomex Ltd.

OZONE ANALYSERS

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Techmation Ltd.

OZONE PURIFIERS

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Servomex Ltd.

PUMPS

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Hamworthy Engineering Ltd.
SKC Ltd.
Uniscience Ltd.

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RADIANT HEATING

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Industrial Acoustics Company Ltd.

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Equipment Ltd.
Astec Environmental Systems Ltd.
Bostock Hill & Rigby Ltd.
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Lodge-Cottrell, Division of
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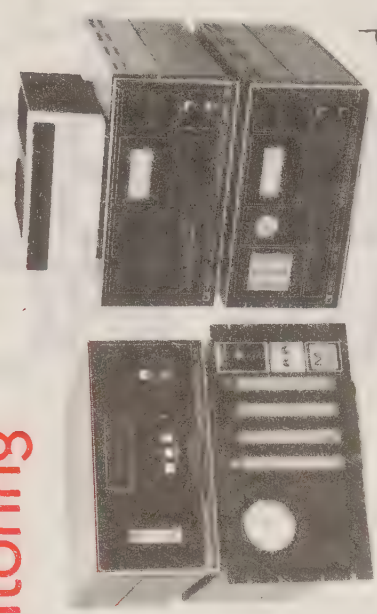
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CONTENTS

PART A – NSCA INFORMATION

SECTION 1

REPORTS FOR THE YEAR 1985-86

The National Society for Clean Air	1
Review 1985-86	2
Chairman's Report for 1985-86	10
Accounts for the period 1 April 1985 to 31 March 1986	16

SECTION 2

NSCA STATUTES

Memorandum of Association	20
Articles of Association	22
Bye-Laws	30

SECTION 3

Honorary Officers	34
Past Presidents 1929 to 1985	34
Past Chairmen of Council 1958 to 1986	35
The Council of the Society	36
Standing Committees	38
NSCA Staff	39
Who's Who 1987	40

SECTION 4

MEMBERSHIP AND DIVISIONAL REPORTS

Division 1 – Scotland	60
Division 2 – Northern Ireland	60
Division 3 – Northern	61
Division 4 – North West	62
Division 5 – Yorkshire and Humberside	64
Division 6 – West Midlands	65
Divisions 7/8 – East Midlands and Eastern	67
Divisions 9/10 – London & South East and Central Southern	69
Division 11 – South West	71
Division 12 – South and Mid Wales	73

PART B – STATISTICS AND DIRECTORIES

SECTION 5

Smoke Control Areas	75
---------------------	----

SECTION 6**DIRECTORY OF ORGANISATIONS**

UK Organisations	86
Overseas Organisations	98

SECTION 7

Guide to Environmental Films and Teaching Aids	109
--	-----

SECTION 8

Directory of Consultants	116
--------------------------	-----

SECTION 9**TRADE DIRECTORY AND BUYERS GUIDE**

Alphabetical Entries	125
Classified Entries	135

ADVERTISERS

Castle Associates	146
Central Electricity Generating Board	138
Coalite Group PLC	148
Enviro Technology Services Ltd	ii
Solid Smokeless Fuels Federation	142

NATIONAL SOCIETY FOR CLEAN AIR

The Society's origins date back to the Coal Smoke Abatement Society (founded 1899); in the past decade it has considerably widened its interests and activities, and its work now covers the whole field of air pollution control and the problem of noise and its control. The NSCA has national and international standing; its influence and operation embrace industry, local and central government and the general public. It is concerned both with long-term policy questions and urgent current problems. The NSCA is a Founder Member of the worldwide International Union of Air Pollution Prevention Associations (IUAPPA) and the official UK representative on the International Association Against Noise.

THE NSCA's AIM is to secure environmental improvement through the reduction of air pollution, noise and other contaminants, while having due regard for other aspects of the environment. The NSCA advances the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention. The Society is funded by members' subscriptions, donations and monies raised by activities.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities, universities and other educational establishments, corporate bodies representing learned and professional institutions, the fuel industries, and other industrial companies.

PRINCIPAL ACTIVITIES INCLUDE: holding Conferences and Technical Training Workshops. Convening national and regional meetings and exhibitions. Making representations to government, other authorities and agencies and to industry, on all matters relating to air pollution and noise, including: legislation drafting, statutory controls, standards, technical concerns, local and national issues.

PROVISION OF INFORMATION FOR ENVIRONMENTAL EDUCATION The NSCA promotes public education at all levels. The approach is to stimulate interest in the environment by providing information that is accessible, balanced and up to date. The Society has its own press and publishes books, reports, papers, conference and technical proceedings, a range of leaflets on different topics, and the journal *Clean Air* (quarterly). The Society operates an Information Service and Library which handles thousands of requests for information, references and publications every year.

ORGANISATION The elected Council is the Society's governing body. An administrative staff headed by the Secretary General is employed at the Brighton Headquarters. The Society has 12 Divisions throughout the UK which arrange activities and meetings at regional level and consider issues from that perspective. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

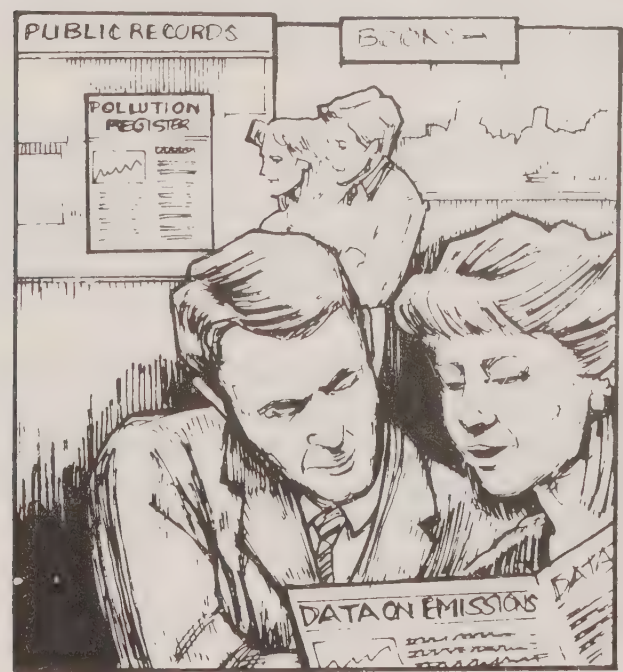
POLICY DISCUSSION AND FORMULATION Policy discussion and formulation is initiated by NSCA Divisions and at the annual NSCA Conference as well as within the national Council. Policy details are evolved by the appropriate standing committee(s): Technical + Noise, and Parliamentary and Local Government; a Steering Committee reacts swiftly when urgent response is required. Policy is ratified by the Council.

Review 1985-86

PROGRESS ON POLLUTION ISSUES

Access to Information

In a year when freedom of information continued to be headline news, the Government published its proposals for widening public access to environmental information. The NSCA had previously given its views on the way forward in response to a consultation document. The Society regards the proposals which finally emerged as a practical first step, with the reservation that positive efforts should be made to present results of monitoring and as much information as possible on breaches of legislation. While excessive bureaucracy should be avoided, the NSCA maintains that all interests are best served by a presumption in favour of openness.



Acid Rain

Pressure to take positive steps to reduce potentially acid gaseous emissions reached a crescendo during the year. The NSCA's technical group on acid rain concluded that enough was known about the existence and mechanisms of different forms of damage to require that remedial measures be put immediately into effect. In representations to Government, the Society called for: specific positive controls to be introduced at power stations — notably Drax B which came on line during the year — and large new industrial combustion plant; and for further road vehicle emission controls.

When retrofitting of 6000 MW of power station capacity, including Drax B, was announced, the NSCA welcomed both the CEEB initiative and the new direction in Government policy as an encouraging first step. The formal decision that all new CEEB plant would be fitted for gaseous emission controls was greeted with approval. But, as the important joint NSCA/IEEP Conference on acid rain (sponsored by the Commission of the European Communities) made clear in September 1986, these moves may do little more than maintain

Review 1985-86

the status quo — the *current* downward trend in emissions from large combustion plant. The debate now focusses on what steps should be taken to achieve a more rapid reduction in emissions as evidence of the long-term harmful effects of acid deposition mounts.

Agricultural Pollution

Although disappointed that Government has not set a date by which straw and stubble burning should be phased out, the NSCA takes some comfort from the belated recognition by both farmers and Government alike that the air pollution, inevitable when straw is

burned, is a serious problem which must be redressed.

The NSCA has continued to monitor the impact of each burning season and press for a ban to be introduced at the earliest possible date, but no later than 1990. Meanwhile it has investigated alternative uses for straw. Great hope lies in the widespread acceptance that straw incorporation can be done without damage to the next crop, providing the soil type is right. The NSCA was one of the sponsors of a detailed Soil Survey map of southern and eastern England which shows which soils are suitable for incorporation.



Review 1985-86

There has been good progress in securing an NSCA aim of policy on aerial spraying: after representations by the NSCA and separately by its members, the Government agreed that the local authority should be notified as of right whenever aerial crop spraying is to take place. Now the NSCA and its member local authorities will monitor closely the implementation and effectiveness of this and other regulations governing pesticides use under the *Food and Environment Protection Act*.



Asbestos

As part of its declared effort to increase the flow of objective and relevant information on asbestos and related hazards, the NSCA held a Workshop in March 1986 and released a public information leaflet shortly afterwards. The Workshop successfully projected guidelines for local authority action on asbestos, while the leaflet is a citizen's guide, concentrating on asbestos in the home. It is clear that sooner or

later asbestos removal in houses and public buildings will entail relatively massive expenditure, and the NSCA sees it as essential to help local government plan for the task, and spur Government into a more positive recognition of the burden facing local authorities, industry and the private householder.

Lead in the Environment

We have seen welcome progress in eliminating lead in paint and petrol, although lead free petrol is not widely available and final agreement at EEC level is still needed on the introduction dates for new cars running on lead-free fuel. The NSCA will continue to provide the public with comprehensive and up to date information on the subject, and press for early target dates on petrol, paint, lead weights and shot; and, most important of all in some areas, the removal of lead pipes or water treatment to prevent uptake of lead in the water supply.

Legislative Changes

Most of these are impending rather than currently effective: we still await the review of clean air legislation, promised back in 1982! But the NSCA was delighted with the Government announcement to form a combined Inspectorate of

Review 1985-86

Pollution as from April 1987, with IAPI at its DOE nucleus. The NSCA has taken the lead in campaigning for just such a change, and believes that the new Inspectorate will be instrumental in ensuring a BPEO approach to pollution control, and in strengthening environmental policy making at home and the UK position abroad.

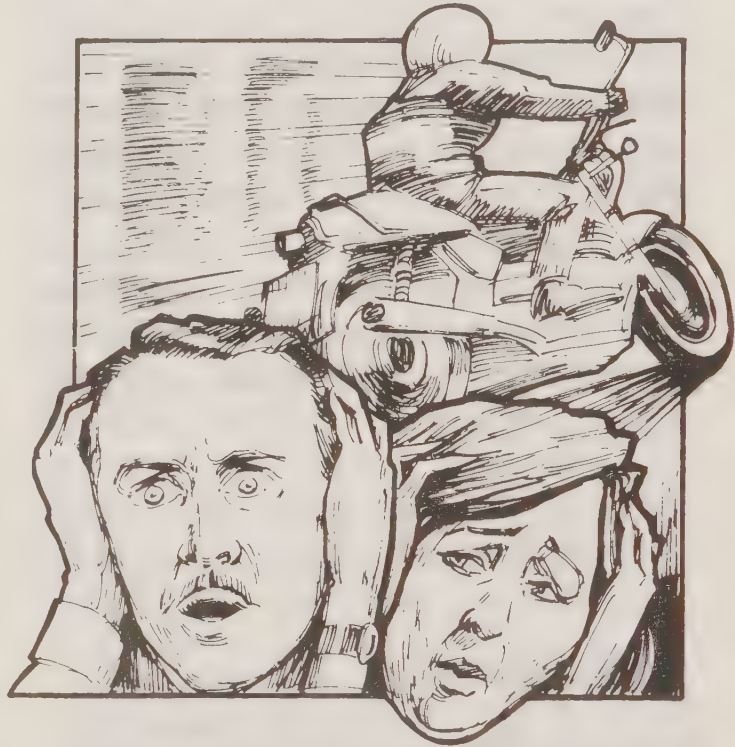
Noise

The NSCA's Noise Committee, formed in 1984, concentrated its efforts in four main areas:

- traffic noise, particularly from motorcycles;
- sound insulation in dwellings, especially converted flats;
- simplification of the noise abatement zones procedure;
- public education on noise matters.

The Noise Committee initially prepared evidence on motorcycle noise for the House of Lords, in response to an EEC proposal for increasingly tough controls. It has since actively encouraged local monitoring of motorcycle noise, and the use of "noise traps" as a means of control. The Committee warmly welcomed the report by MACCANC (Manchester Area Council for Clean Air and Noise Control) on motorcycle noise, which is an excellent review

of the subject and contains particularly helpful guidance to local authorities on how to tackle the problem: this report deserves wide readership.



On sound insulation, the NSCA set up a specialist sub-group which in June 1986 produced the first of a two-part report on sound insulation in flats. This publication presented the results of a survey of local authorities on the extent of the problem, and reviewed legislative means of preventing or dealing with inadequate sound insulation in converted dwellings.

The second part of the report (in preparation) will offer practical technical guidance to housing associations, property developers and local authorities.

Review 1985-86

Provision of material for public education on noise has involved the preparation of a teaching pack for schools and revision of the leaflet for the general public.

The Noise Committee's work has been well publicised during the year and the NSCA is now recognised as the primary public pressure group working in this area. It was appointed the full UK member representative to the International Association Against Noise in April 1985.

Smoke Control

Steady progress has been made in introducing new smoke control areas by some committed local authorities — but in other areas lamentable foot dragging has still been apparent. The NSCA recognises the financial problems facing some LAs who have large programmes still to complete, but many cities in this country are smoke free and determined to remain so, having made great sacrifices to achieve that status through part-funding domestic conversions. On both health and equity grounds, the NSCA looks to a more vigorous effort where progress has declined in the past.

ACTIVITIES

Advice to the Public

The NSCA's HQ Library and Information Service is a focal point for enquiries at all levels on air pollution, noise and related environmental issues. Requests for advice, information, references or policy statements come from the public, the media, and both member and non-member local authorities and industries. Members of the NSCA are given priority but no requests for help are ignored.



NSCA publications are a major source of ready-printed information and new books and leaflets are designed to meet a growing demand for facts on a particular subject, or tailored to suit a particular type of

Review 1985-86

enquirer. The library operates a direct and postal loan service and is part of the inter library loan scheme organised by the British Library. During the year particular interest has been shown in: problems of acid rain in UK and abroad; asbestos; noise — from road traffic, and due to poor internal sound insulation; lead in the environment; work and policies of the NSCA.

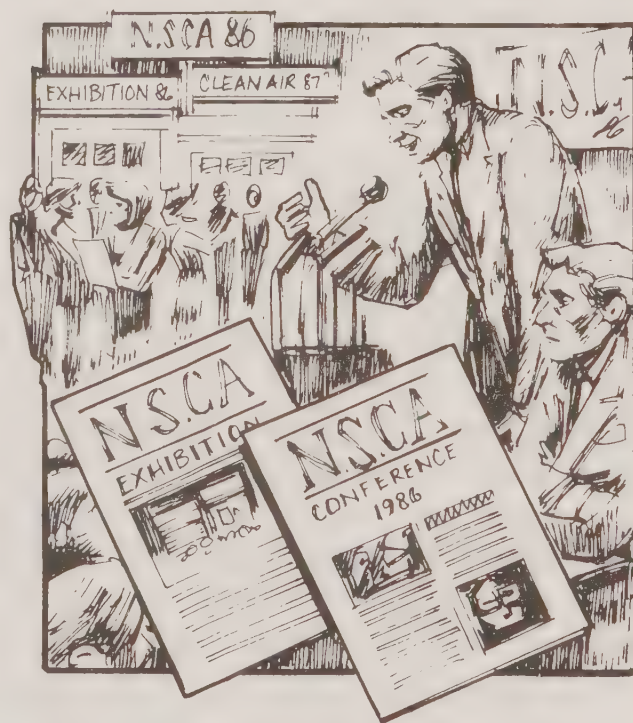
Conferences and Meetings

The NSCA's 1985 Annual Conference held in Scarborough attracted an excellent attendance of 335 delegates. The parallel Exhibition, building on previous years' success, proved to be a major showcase for pollution control equipment and services. Main conference topics were acid deposition, hazardous waste disposal, noise control, emission control technology and discussion of two indoor air pollution hazards — radon and asbestos.

Asbestos was also the theme for the 1986 Spring Workshop, held in Newcastle upon Tyne; 13 speakers provided a comprehensive update on health risks, monitoring and identification of fibres, and asbestos removal. The Workshop fulfilled its aim of providing policy advice and practical guidelines for dealing with asbestos and the fear it arouses. Together, the papers and

reports of discussions provide a comprehensive working manual for local authorities and industry.

The other major event in 1986, organised by the NSCA in conjunction with the Institute for European Environmental Policy, was the September one-day conference on "Acid Rain — the Political Challenge". An exciting line-up of speakers included the EEC's Environment Commissioner Stanley Clinton Davis, UK Environment Minister William Waldegrave, Lord Marshall of Goring and MPs Sir Hugh Rossi and David Clark who have a particularly knowledgeable interest in the acid rain debate.



The event, sponsored by the Commission of the European Communities, coincided with the British

Review 1985-86

Presidency of the EEC and was held just before the round of UK party political conferences to ensure that environmental policymaking directed at solving the acid rain problem would be high on the political agenda. It was a most timely debate — just one week previously the Government had announced a limited programme of measures designed to placate international concern about the impact abroad of UK emissions.

Environmental Education

The Society helps to meet its overall aim of securing environmental improvement by a programme of public education at all levels. With environmental subjects now firmly established in the school and further education curriculum, the NSCA's *Reference Book* is a comprehensive source of environmental information for graduate and professional purposes. The Society publishes illustrated booklets on pollution and noise for secondary level school pupils, and a range of leaflets on topics such as acid rain and asbestos.

The emphasis now is on provision of information for junior school-children with specific projects including a teaching pack on noise, and work sheets on air pollution.

Overall, the intention is to stimulate interest in the environment by providing information that



is accessible, balanced, and up-to-date. Requests from teachers, school pupils and higher level researchers are usually fulfilled by return of post and no charge is levied although stamps to cover postage costs are appreciated.

Publications

As part of its regular review and update of materials, the standard leaflet "Prevent Air Pollution" was completely rewritten and republished during the year. Other leaflets subject to major revision were those on acid rain, noise ("Quiet Please"), and on the NSCA itself. Information on the Society is now published in the form of an

Review 1985-86

8-page brochure which includes membership application details. New publications during the year were a leaflet on asbestos, one on air pollution and the law, and reports on straw and stubble burning and sound insulation. The *Reference Book* was thoroughly revised for the 1986 edition and the quarterly journal *Clean Air* and the annual *NSCA Members' Handbook* appeared as scheduled. *Clean Air* has changed direction over the past two years: as well as review articles on environmental subjects, it now includes a regular news "Update" column, relevant extracts from *Hansard* under the heading "In Parliament" and a bulletin of International News. The aim is to keep readers abreast of important developments and alert them to future trends in policy and technology.

Publicity

Apart from considerable advisory work with the Press and media, the NSCA bends its efforts towards securing maximum publicity for air pollution, noise and related issues. Publicity for the Society itself is of course a welcome bonus! The Society's Officers have broadcast on local and national radio on many occasions during the year, with appearances on TV news and the Jimmy Young radio show, as

well as items on BBC Radio 4's "Today" programme. Coverage of NSCA reports, policies and activities — particularly its conferences — continues to be good in the specialist and local government press, and national press coverage of NSCA views is showing a healthy increase.

Research

The two major areas of research during the year were agricultural pollution and noise. The NSCA's regular survey of straw and stubble burning resulted in the publication of a 34-page report which was submitted to both MAFF and the NFU. The report highlighted the inevitable air pollution which results from crop residue burning, even though damp and windy weather kept burning below previous levels. The survey's influence on public opinion is revealed in the marked shift in government and farming community thinking towards support for alternative means of straw disposal and away from vehement protection of the farmer's right to burn as he pleases.

Noise research concentrated on the survey of sound insulation in converted flats and resulted in the publication of an initial report in June 1986. The second follow-up report, a technical guidance document, is due for publication in December 1986.

CHAIRMAN'S REPORT FOR 1985-86

GENERAL OVERVIEW

Civil Nuclear Power

Concern for the environment and the control of pollution continue to make headline news and have helped to sustain the high level of activity which has characterised the work of the Society — nationally and locally — in recent years. But throughout our long history, it is arguable that no one event has generated greater or more immediate anxiety than the fallout from Chernobyl. There are few subjects in the field of environmental pollution to which people react so emotionally as they do to radioactivity and, despite the fact that civil nuclear power has been with us since the '50s, there are few technologies about which the public at large is so uninformed. Some see its development as inevitable, believing that the hazards can be reduced to the level where they should be justifiably accepted in relation to the benefits: others see it as fraught with future danger for mankind — to be avoided at whatever cost. It is against this background and within our capabilities that the Society has embarked upon a re-examination of its policy on civil nuclear power. In addition to those technical and organisational matters central to the safe generation of nuclear power and the disposal of the hazardous materials it creates, we shall also be looking at the political, social and ethical questions surrounding its employment.

The Framework for Pollution Control

Last year my predecessor noted signs that the Government was beginning to see

political advantage in awarding a higher priority to the control of pollution, although, with the appointment of a fourth Secretary of State in as many years, one gets the impression that the inter-Departmental debate on the overall co-ordination of policy may still have some way to go. On the other hand, it is evident that our message about the need for the United Kingdom to develop a more coherent and forward looking environmental strategy has finally been received and understood. We can take justifiable satisfaction in the knowledge that the Society has played a major role in winning the long-fought battle to return the Industrial Air Pollution Inspectorate to the Department of the Environment and the creation of a new HM Inspectorate of Pollution — and we can now look forward to the benefits which should flow naturally from the creation of an effective management chain backed by a strong policy unit.

DOE Grant

On a totally different yet equally positive note, I am delighted to report that in approving our application under its Special Grants Programme, the Department of the Environment has formally recognised the current, high quality educational work of the Society. Members will know that the question of Government financial support for our free information and library service and educational programmes has been raised from time to time over the last twenty years. With this success I would like to express our many thanks to those adjudicating the scheme for the value they have

placed on our work. Needless to say, the grant is already spoken for in meeting an expanded programme of work (and requiring one additional member of staff) which I will refer to later under budget and finance.

Liaison with Other Bodies

Turning to our relationships with other organisations, the Society continues to enjoy wide representation on the Investigation of Air Pollution Standing Conference (IAPSC) which, I imagine, will be more familiar to members under its previous title — the Standing Conference of Co-operating Bodies. We continue to be represented on the Council for Environmental Conservation (CoEnCo) and its committees, the Parliamentary and Scientific Committee and on Committees of the Combined Heat and Power Association. We are also represented in the Energy Industries Club. We continue to provide secretarial services for the Environmental Protection Equipment Manufacturers Association (EPEMA) and the International Committee on Industrial Chimneys (CICIND).

I am also delighted to report that following an initiative earlier this year we have agreed to co-operate fully with the Filtration Society, each becoming a member of the other body. As many members will know, the Filtration Society has established a world wide reputation for excellence and it is with great pleasure therefore that I welcome Dr. R.W.K. Allen, Chairman of Council of the Filtration Society, as their representative on our Council.

IUAPPA

As you will know, the Society is a

founder member of the International Union of Air Pollution Prevention Associations (IUAPPA) for which we also provide the Secretariat publishing the IUAPPA Newsletter and the IUAPPA Handbook. Later next year we shall also be publishing the first edition of a major new work, the IUAPPA Compendium, which will be a "state-of-the-art" book dealing with the philosophy and administration of air pollution control and based on contributions by the member associations. IUAPPA continues to grow and now comprises 19 members and a number of observers, representing in all 29 countries. We anticipate a further two new members joining this year. As a member of the International Union of Technical Associations (UITA) the Union achieves close links with many United Nations organisations and other international bodies. The Union also keeps in touch with the Commission of the European Communities.

The 7th World Clean Air Congress was held in Sydney in August under the auspices of the Clean Air Society of Australia and New Zealand (CASANZ) during which some 400 papers and 150 posters were presented. Six papers were presented by members of the Society. Meetings of the IUAPPA Executive Committee and the International Board were held in conjunction with the Congress. Items on the Agenda included arrangements for the 8th World Congress which will convene at The Hague in 1989 and the 9th World Congress to be held in Montreal in 1992. Members will also wish to take note that IUAPPA has appointed John Langston as its new Director General. We wish him all success and our best wishes also go to Philip Sharp who gave up his full involvement with IUAPPA on health grounds, but who

12 – Section 1

will continue as Emeritus Director General.

AICB

While we were previously an associate member of the Association Internationale Contre le Bruit (AICB) I am pleased to report that the Society has now been recognised as a full member representing the United Kingdom in the Association. The bi-annual Congress of the Association was held in Basle on 7-10 September when the Society was represented by the Chairman of the Noise Committee, Mr. Hylton Dawson. We are most grateful to Rolls-Royce Limited for sponsoring the visit.

Divisional Activities

With regard to our own affairs, I am pleased to report that the high level of activity which has become the norm for most Divisions in recent years has continued. I have been fortunate to be able to attend the Annual General Meetings of the Northern, London and South East and Central Southern Divisions in early June, and subsequently those of the East Midlands and South and Mid Wales Divisions. All were extremely well attended, underlining yet again the fact that interest in air pollution control pervades all levels of the nation. Nevertheless, without the leadership given by the Divisional Councils and, in particular, the sustained hard work of the Honorary Secretaries, this essential grassroots support would be seriously diminished. I would, therefore, on behalf of all members of Council, like to congratulate and thank all concerned for ensuring that our work is built on strong foundations.

Finally, I look forward to having the opportunity to visit those other Divisions holding their AGMs later in the year before my term in office ends.

Spring Workshop on Asbestos

The spring Workshop on the subject of "Asbestos – Policies for the Future" was held at the University of Newcastle upon Tyne in March and attracted a total attendance of 140. This Workshop produced an outstanding series of discussions and I am most grateful to our distinguished speakers and Session Chairmen for ensuring its success. Our next Workshop, to be held at the University of Manchester on 25 and 26 March 1987, takes as its theme "Indoor Air Quality – Acceptable Standards and Building Design" with the object of examining the range of measures required to secure an optimum air quality in the built environment.

52nd Annual Conference

Our 52nd Clean Air Conference and Exhibition, held in Scarborough in October, attracted a total attendance of 335 delegates and 24 exhibitors – numbers satisfactorily above the average in recent years.

In his **Presidential Address** our new President, Cllr. Len Poole, BEM, JP, spoke about the relationship between the Society and the local authorities as it has developed since the turn of the century. His address, published in *Clean Air*, was greeted with prolonged applause.

Presidential and Vice-Presidential Matters

During his first year in office the

President has been as fully active in furthering the work of the Society as he has been throughout the past 30 years. It is a rare event for him to miss a meeting of Council or the Standing Committees and he continues to serve as Vice-Chairman of the Noise Committee. His vast experience of local authority function and practice is invaluable.

I would also like to thank the Vice-Presidents for their efforts on our behalf. Mr. Stanley Cohen, CBE, has been instrumental in finding sponsors for the new noise education pack. The Earl of Cranbrook and Mr. Ken Collins, MEP, co-chaired the most successful joint NSCA/IEEP Conference on “Acid Rain – the Political Challenge”, held in London on 19 September – when Vice President Sir Hugh Rossi, MP, was one of the speakers. Mr. A. (Mick) Archer, MBE, opened the discussion on “Acid Rain” at last year’s Conference. I am pleased to inform you that following invitations from the Nominations Committee, Mr. Frank Haynes, MP, and The Rt. Hon. The Earl of Cranbrook have agreed to stand for re-election for a further three years in office and that Mr. Simon Hughes, MP, has agreed to stand for election for the first time. I should mention too that our other Vice-Presidents, Mr. Gareth Wardell, MP and Mr. Madron Seligman, MEP have been active in several ways behind the scenes. As you will appreciate, the influence which our Vice-Presidents can and do bring to bear is of fundamental importance.

Honorary Members

I know that their many former colleagues within the Society will be delighted to see that Council has proposed that Mr. Stanley Cohen, CBE, and Rear Admiral

Philip Sharp, CB, DSC should be elected Honorary Members. For 14 years Stanley Cohen was Honorary Treasurer of the Society, successfully steering it through a difficult financial period. He was elected President in 1972 since when he has continued to serve as a Vice-President. A Commoner and former Chief Commoner of the City of London, Stanley played a key role in bringing clean air to the City, particularly in fostering the unique control on the amount of sulphur in fuel oil used within the City of London.

Secretary General of the Society from 1968 to 1980, Philip Sharp recently retired as Director General of the International Union of Air Pollution Prevention Associations – a post he has held since 1978. Many will remember him as a member of the Clean Air Council from 1968 until its dissolution in 1979 and as Chairman of that Council’s Steering Committee from 1974 to 1979. His services to clean air over almost 20 years have been outstanding.

The Council’s Committees

Turning now to activities within the Society, as you will gather from the “*Review*” Section of this report, the Council and its Standing Committees have not lacked things to do. Our reputation depends on basing our policies on the best possible analysis of the scientific and technical evidence and a thorough appraisal of the options. This takes time and effort, and I would like to take this opportunity of thanking all members of Council and all the members of the Committees both for attending the meetings, and, not infrequently, taking the trouble to put their thoughts in writing. Without such help the staff would find it impossible to keep up with the work load.

Certain issues stand out. Firstly, the outstanding response to the request for views on the Chernobyl disaster and the subsequent joint meeting of the Technical and Parliamentary and Local Government Committees. I have no doubt that their decision to form a working group to re-examine our position on civil nuclear power and the disposal of radioactive waste will ensure that they are even busier in the months ahead. Secondly, the enthusiasm and drive of the Noise Committee warrants special mention. In the two years since it was first established it has achieved an excellent reputation among the media and the scientific press for producing commonsense and practical solutions to a growing number of long-standing problems. As one example, its work on noise in flat conversions is a major contribution, benefitting an important cross-section of the community of which we may be justifiably proud.

I would like to say a special thank you to the Conference and Promotions Committee for successfully progressing this area of the Society's activities. In addition to the meetings already mentioned, they have organised the 53rd Clean Air Conference at Blackpool and completed outline planning for the Spring Workshop at Manchester University. They have, as always, overseen the educational, information and research side of the Society's work. Perhaps no less important, they have successfully burnished the image the Society presents to the world through both activities and press/media relations. More detailed reports on publications, research and publicity are given in the "*Review*" section of this Annual Report.

Finance

Finally, I must report that the Finance and Administration Committee has been duly exercised with the inevitable problems of budget and finance. As you will see from the balance sheet, the anticipated deficit forecast by last year's budget turned into a satisfactory surplus — largely because of the good attendance at Conference and at the Workshop, a further increase in the sales of publications, and the benefit of a relatively low rent. However, the factors underlying last year's projected deficit remain and, although we shall have the immediate benefit of the most welcome DOE Grant to help balance the books this year, during the course of the three-year programme which the grant covers, it will be fully used in information and educational requirements and support services. Thus, as welcome as it is, we have to remember that the grant is of limited duration and already spoken for! In the meantime inflation continues and, having learned the lessons of 1974 and 1975 the hard way, I feel sure you will agree that it would be imprudent not to maintain subscriptions in line with the RPI.

Concluding Remarks

On behalf of all members of the Society, I would like to thank the Secretary General and all the members of our headquarters staff for their outstandingly successful and loyal efforts on our behalf. Those of us who have watched them at work over the past many years never cease to be amazed at the cost effectiveness of all aspects of their operations due to their professionalism and team work. If you are visiting Brighton and can spare the time, please do not hesitate to visit

the headquarters.

In conclusion I would like to thank everyone within the Society for the help and encouragement they have given me during my year of office as your Chairman, which has been a very happy one. Much has changed on the air pollution front since I first participated in the work of the Society in 1964 as a member of its Technical Committee. The Society has achieved a great deal in that time but our successes have served to increase public

awareness of the need for clean air and consequently the demand placed upon us and our limited resources shows no signs of diminishing. Nevertheless the enthusiasm of our permanent staff, and of the members of our Society, especially those who are able to serve on the various committees, is such that I look forward with confidence to our overcoming each new challenge as it arises.

R.W.C. Wheatley
Chairman of Council

THE NATIONAL SOCIETY FOR CLEAN AIR

(Company Limited by Guarantee — Incorporated 1st January 1958)

BALANCE SHEET 31st MARCH 1986

	Notes	£ 1986	£ 1985
TANGIBLE FIXED ASSETS			
Office furniture and equipment	2 & 3		
Cost or valuation		20,886	18,527
Accumulated depreciation		(15,875)	(14,225)
		5,011	4,302
Library books at nominal value		100	100
		5,111	4,402
CURRENT ASSETS			
Sundry debtors		13,373	4,244
Prepayments		288	347
		13,661	4,591
Stock of publications	2	5,360	5,590
Quoted investments	4	33,584	33,584
Bank balances		45,877	35,347
Cash in hand		78	67
Funds held by divisions		1,737	1,542
		100,297	80,721
CREDITORS: amounts falling due within one year:			
Sundry creditors and accrued expenses		(14,273)	(8,865)
NET CURRENT ASSETS		86,024	71,856
TOTAL ASSETS LESS CURRENT LIABILITIES		£91,135	£76,258
GENERAL FUND			
Balance at start of year		57,680	51,923
Surplus for the year		9,877	5,757
Balance at end of year		67,557	57,680
PREMISES FUND		23,578	18,578
		£91,135	£76,258

The accounts were approved by the Council of the Society on 18 September 1986 and signed on its behalf by:

B.H. Edwick — *Honorary Treasurer*
Air Commodore J. Langston — *Secretary General*

INCOME AND EXPENDITURE ACCOUNT		for the year ended		31st MARCH 1986	
		1986		1985	
	Notes	£	£	£	£
INCOME					
Subscriptions and donations	2		54,091		51,822
Conference, Scarborough, October 1985			29,734		-
Conference, Brighton, October 1984			-		28,394
Workshop, Newcastle-upon-Tyne, March 1986			13,034		-
Workshop, Warwick, March 1985			-		6,832
Sales of publications			22,892		13,612
Advertising revenue					
Clean Air		1,132		568	
Members' Handbook		<u>1,549</u>		<u>943</u>	
			2,681		1,511
Investment income: Dividends		4,881		3,890	
Interest		<u>4,915</u>		<u>5,496</u>	
			9,796		9,386
Contributions from IUAPPA/CICIND/EPEMA			12,072		6,822
Contribution to cost of past chairmen's badges			30		-
Profit on sale of office equipment			-		<u>100</u>
			<u>144,330</u>		<u>118,479</u>
EXPENDITURE					
Staff costs:					
Salaries and wages		53,705		46,429	
Social Security costs		<u>5,428</u>		<u>4,895</u>	
		59,133		51,324	
Other costs:					
Sub-contract printing		7,015		6,265	
Rent, rates, light and heat	5	6,854		3,433	
Insurance, travel, cleaning and general expenses		13,965		12,276	
Audit fee and financial advice		657		854	
Depreciation –					
office furniture and equipment	2 & 3	1,650		1,471	
Stationery and supplies		2,420		1,315	
Provision for doubtful debts		48		(4)	
Irrecoverable VAT input tax	6	<u>2,184</u>		<u>2,377</u>	
		93,926		79,311	
“Clean Air” and Members' Handbook		8,064		7,249	
Information and Publicity Services		2,997		2,744	
Cost of publications		4,995		3,376	
Divisional expenses		<u>1,625</u>		<u>1,092</u>	
		17,681		14,461	
Conference, Scarborough, October 1985		11,568		-	
Conference, Brighton, October 1984		-		10,328	
Workshop, Newcastle-upon-Tyne, March 1986		6,278		-	
Workshop, Warwick, March 1985		-		3,622	
		<u>17,846</u>		<u>13,950</u>	
			(129,453)		(107,722)
Surplus for the year			14,877		10,757
Transfer to Premises Fund			<u>(5,000)</u>		<u>(5,000)</u>
Transfer to General Fund			<u>£ 9,877</u>		<u>£ 5,757</u>

The notes on page 18 form part of these accounts

NOTES TO THE ACCOUNTS for the year ended 31st MARCH 1986

1. LIABILITY OF MEMBERS

In accordance with Clause 8 of the Memorandum of Association every member of the Society undertakes to contribute, in the event of the Society being wound up, such amount as may be required not exceeding 25 pence each.

2. ACCOUNTING POLICIES

- a) Basis of accounting
The accounts are prepared in accordance with the historical cost convention.
- b) Subscriptions
Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate.
- c) Depreciation of tangible fixed assets
The cost of items of office furniture and equipment is written off by equal annual instalments over five years.
- d) Stock of publications
Stock of publications are included at the lower of the Secretary General's valuation and net realisable value.

3. OFFICE FURNITURE AND EQUIPMENT

	Cost or valuation	Accumulated depreciation
	£	£
at 1.4.1985	18,527	14,225
Additions	2,359	1,650
at 31.3.1986	<u>£20,886</u>	<u>£15,875</u>

Records are not available which show the original cost of items of furniture and equipment which were valued by the Secretary General as at 1.4.1972 at £1,910 and were included in the accounts at this figure, which is now fully depreciated.
Subsequent additions, for which records are available, are included at cost.

4. QUOTED INVESTMENTS

	Cost		Market value	
	1986	1985	1986	1985
	£	£	£	£
Fixed interest stocks	11,438	11,438	11,204	10,388
Ordinary shares	22,146	22,146	78,738	57,933
	<u>£33,584</u>	<u>£33,584</u>	<u>£89,942</u>	<u>£68,321</u>

5. PREMISES

The lease on the Society's Brighton offices expired on 14th November 1979. The Society continued to occupy the premises at the same rent from that date to November 1985 when a new annual rental charge became effective. The terms of the new lease have yet to be finalised.

6. IRRECOVERABLE VAT INPUT TAX

The Society has been advised that it can only recover part of the VAT input tax paid. The charge of £2,184 is the amount of irrecoverable VAT written off in 1985/86.

7. TAXATION

As a registered charity the Society is not liable to tax on its income.

STATEMENT OF SOURCE AND APPLICATION OF FUNDS for the year ended 31st MARCH 1986

	1986	1985
	£	£
SOURCE OF FUNDS		
Surplus for the year	14,877	10,757
Adjustment for item not involving the movement of funds:		
Depreciation	1,650	1,471
	<u>£16,527</u>	<u>£12,228</u>
APPLICATION OF FUNDS		
Purchase of tangible fixed assets	2,359	5,084
Change in net current assets:		
Increase in debtors and prepayments	9,070	1,999
(Decrease) increase in stock of publications	(230)	3,890
Increase in quoted investments	-	19,974
Increase (decrease) in funds held by divisions	195	(42)
(Increase) decrease in creditors and accruals	(5,408)	3,173
Increase (decrease) in bank and cash balances	10,541	(21,850)
Total funds applied	<u>£16,527</u>	<u>£12,228</u>

The notes on page 18 form part of these accounts

REPORT OF THE AUDITORS TO THE MEMBERS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have audited the financial statements set out on pages 15 to 18 in accordance with approved Auditing Standards.

In our opinion the financial statements, which have been prepared under the historical cost convention, give a true and fair view of the state of affairs of the Society at 31st March 1986 and of its surplus of income over expenditure for the year ended on that date, and comply with the Companies Act 1985.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

City Gate House
39/45 Finsbury Square
LONDON EC2A 1AE

30 September 1986

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1981 COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION OF THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981

1. The name of the Company (hereinafter called “the Society”) is “The National Society for Clean Air”.
2. The registered office of the Society will be situate in England.
3. (1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.
(2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.
(B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.
(C) To encourage the adoption of methods to reduce and prevent pollution.
(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.
(E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society’s objects.
(F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society’s purposes or calculated to further its objects.
(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.
(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.
(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the

creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.

(M) To take all such other steps as will further the attainment of the above objects or any of them.

PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.

PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.

PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary of State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceed-

- ing 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolutions on 5 October 1981, 1 October 1984 and 27 October 1986.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.
Words importing the masculine gender only shall include the feminine gender and vice versa and
Words importing persons shall include corporations.
Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Society for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership:**Individual Members**

(c) (i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On attainment of the age of 65 or retirement from salaried employment at the age of 60, whichever shall be the earlier, Individual Members may, at the discretion of the Council, retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-laws of the Society.

Local Authority Members

(d) (i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than five Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation *Local Authority* shall be deemed to include *Health Authorities* and *Water Authorities* or such other like authorities as the Council shall from time to time admit for membership.

Corporate Members

(e) (i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but if it desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

Sustaining Members

(f) Any member who subscribes not less than the sum as prescribed in the Bye-laws for this class of membership shall be eligible for admission as a Sustaining Member.

24 — Section 2

Honorary Members

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

Student Members

(h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

Application for Membership

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

Resignation of Members

(j) (i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

- (a) whose annual subscription has remained unpaid for two successive years, or
- (b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or

(c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

Annual Subscriptions

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETING

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings other than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental omissions to give notice of a meeting to, or the non-receipt of such notice by, any

person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:

(a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.

(b) Appointing Auditors and fixing their remuneration.

(c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if

26 — Section 2

any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a single term of three years

(c) Vice-Presidents shall not exceed nine in number nor more than three be elected annually.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term *National or similar organisation* shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:

- (a) If he ceased to be a member or a Representative of a member of the Society;
- (b) If by notice in writing to the Society he resigns his office;
- (c) If a receiving order is made against him or he makes any arrangement or composition with his creditors;
- (d) If he becomes of unsound mind;
- (e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
- (f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36.(i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation of the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before

28 — Section 2

the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

- (a) As to entrance fees (if any) payable in respect of membership of the Society.
 - (b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
 - (c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
 - (d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
 - (e) As to the manner in which the Elections of Officers and Council members shall be conducted.
 - (f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.
- (ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.
- (iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37.(i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In cases of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be

present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provisions of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superseded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

30 — Section 2

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Ordinary Resolution dated the 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980, 5 October 1981, 18 October 1982, 31 October 1983, 1 October 1984, 14 October 1985 and 27 October 1986.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

- (i) The annual subscription payable by an Individual Member shall be not less than £10.50. On attainment of the age of 65 or retirement from salaried employment at the age of 60, whichever shall be the earlier on payment of the sum of Twenty One Pounds, Individual Members may, at the discretion of the Council, retain their membership of the Society in perpetuity, but always subject to the Council's right of removal.
- (ii) Individual Members may on payment of not less than Two Hundred and Ten Pounds become Life Members of the Society.

(b) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£144.00
100,001 to 250,000	£175.00
250,001 to 500,000	£213.00
500,001 to 1,000,000	£279.00
For each additional 500,000 or part thereof — £28.00	

- (c) Corporate Members and unincorporated bodies appointed in accordance with Article 4(e)(ii). The annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:
 - (i) Small local civic societies, colleges, schools and similar organisations – £18.00
 - (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms – £102.00
 - (iii) Industrial organisations – £144.00
- (d) **Sustaining Members**
The annual subscription for Sustaining Members shall be not less than £200.00.
- (e) **Membership – Special Cases**
The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3(a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) Corporate Members

- (i) Corporate Members elected to membership under Bye-law 2(c)(i) shall each be entitled to appoint one representative.
- (ii) Corporate Members elected to membership under Bye-law 2(c)(ii) shall each be entitled to appoint three representatives.
- (iii) Corporate Members elected to membership under Bye-law 2(c)(iii) shall each be entitled to appoint five representatives.
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as Officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members Handbook of the Society;
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. Scotland
2. Northern Ireland
3. Northern: Cleveland, Cumbria (in part, only – Allerdale District Council, City of Carlisle and Eden District Council) Durham, Northumberland, Tyne and Wear.
4. North West: Cheshire; Clwydd; Cumbria (in part, only – Barrow-in-Furness Borough Council, Copeland District Council and South Lakeland District Council);, Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. Yorkshire and Humberside: Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. West Midlands: Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. East Midlands: Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.

8. **Eastern:** Essex, Norfolk, Suffolk.
 9. **London and South East:** East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
 10. **Central Southern:** Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
 11. **South West:** Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
 12. **South and Mid Wales:** Wales except for Clwyd and Gwynedd.
- (b) Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.
 - (c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.
 - (d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

- 6(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.
- (b) Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.
- (c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

- 7(a) The business of the Society shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.
- (b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen and the following Committees:
 - (i) Finance and Administration
 - (ii) Conference and Promotions
 - (iii) Technical
 - (iv) Parliamentary and Local Government
 - (v) Noise
 - (vi) Any other Committee considered by the Council to be necessary.
- (c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:
 1. To implement Council policy
 2. To ensure that the programme of the Standing Committees are comprehensive and appropriately interlocking
 3. To formulate proposals for policy changes
 4. To act on behalf of the Council in cases of urgency
 5. To report to the next following meeting of Council any action taken on its behalf.
- (d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.
- (e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the office of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President

COUNCILLOR L. POOLE, BEM, JP

Immediate Past President

PROFESSOR D.G.T. WILLIAMS, MA, LLB

Vice Presidents

STANLEY E. COHEN, CBE, FRSA

KEN COLLINS, MEP

THE RT. HON. THE EARL OF CRANBROOK

FRANK HAYNES, MP

SIMON HUGHES, MP

SIR HUGH ROSSI, MP

MADRON R. SELIGMAN, MEP, BA

GARETH WARDELL, MP

Honorary Treasurer

B.H. EDWICK, TEng(CEI)

Chairman of Council

I. W. BARKER, FIEH, FBIM

Deputy Chairmen

K. S. DUNN, Minste

W. F. SNOW, MIEH, MIWM

Immediate Past Chairman

R.W.C. WHEATLEY, BSc

PAST PRESIDENTS 1929 TO 1985

October 1929 to November 1943

Dr. H.A. Des Voeux

November 1943 to March 1946

Mr. Will Melland

March 1946 to September 1948

Sir George Elliston

September 1948 to September 1949

Lord Simon of Wythenshawe

September 1949 to September 1951

Dame Vera Laughton Mathews, DBE

September 1951 to October 1953

Alderman Professor F.E. Tylecote, CBE

October 1953 to October 1956

Sir Ernest Smith, CBE

October 1956 to December 1958

Dr. R. Lessing, CBE

December 1958 to March 1961
Sir Hugh Beaver, KBE
March 1961 to April 1963
The Rt. Hon. Lord Cohen of Birkenhead
April 1963 to May 1965
Dr. Albert Parker, CBE
May 1965 to May 1967
Sir Alan Wilson, FRS
May 1967 to April 1969
Sir John Charrington
April 1969 to June 1971
Sir Kenneth Hutchison, CBE, FRS
June 1971 to June 1973
Mr. Stanley E. Cohen, CBE
June 1973 to July 1975
Sir John Greenborough, KBE
July 1975 to July 1977
Professor P.J. Lawther, CBE
July 1977 to July 1979
Lord Flowers, FRS
July 1979 to October 1981
Lord Ezra, MBE
October 1981 to October 1983
Naomi E.S. Sargent
October 1983 to October 1985
Professor D.G.T. Williams

PAST CHAIRMEN OF COUNCIL 1958 TO 1986

January 1958 to December 1958
Dr. J.S.G. Burnett
December 1958 to April 1962
Mr. J. Innes
April 1962 to April 1964
Dr. J.L. Burn
April 1964 to May 1967
Mr. J. Goodfellow
May 1967 to April 1969
Mr. A.C. Saword
April 1969 to September 1971
Dr. W.C. Turner
September 1971 to July 1973
Mr. S. Cayton MBE
July 1973 to July 1974
Mr. W. Combey
July 1974 to July 1975
Miss M. George CBE
July 1975 to July 1976
Mr. J. Clancey OBE, BEM
July 1976 to July 1977
Mr. P. Draper
July 1977 to July 1978
Mr. T.H. Iddison MBE
July 1978 to July 1979
Professor R.S. Scorer

July 1979 to July 1980
Mr. H.I. Fuller
July 1980 to October 1981
Mr. A.J. Clarke
October 1981 to October 1982
Mr. H. Giblin
October 1982 to October 1983
Mr. W.B. Twyford
October 1983 to October 1984
Councillor L. Poole BEM, JP
October 1984 to October 1985
Mr. M. Beaumont
October 1985 to October 1986
Mr. R.W.C. Wheatley

THE COUNCIL OF THE SOCIETY

APPOINTED REPRESENTATIVES OF NATIONAL BODIES

British Coal
Mr. R.W.C. Wheatley
British Gas
Dr. F.E. Shephard
British Steel Corporation
Mr. D.A. Harrison
Central Electricity Generating Board
Mr. G. Barrett
Environmental Protection Equipment Manufacturers Association
Mr. K.S. Dunn
Filtration Society, The
Dr. R.W.K. Allen
Industrial Gas Cleaning Association
Mr. D. Morgan-Jones
Institute of Petroleum, The
Mr. J.H. Boddy
Institution of Environmental Health Officers, The
Mr. R.W. Lander
Institution of Gas Engineers, The
Dr. F.E. Shephard
Low Temperature Coal Distillers Association
Mr. N.M. Ross
Solid Smokeless Fuels Federation
Mr. I. MacKay
Womens Solid Fuel Council
Mrs. E. Warnock

ELECTED REPRESENTATIVES FROM NSCA DIVISIONS

SCOTLAND - Division 1

3 Representatives

Mr. E. Gibson

NORTHERN IRELAND - Division 2

1 Representative

Mr. O. Hetherington

NORTHERN - Division 3

3 Representatives

Cllr. L. Poole - Mr. W.C.B. Robson

Cllr. T.W. Yellowley

NORTH WEST - Division 4

6 Representatives

Mr. M. Dickinson - Mr. W.D. Gartside

Mr. I.R. Liversidge - Mr. J.B. Marsh

Mr. W.F. Snow - Mr. A.G. Ward

YORKSHIRE AND HUMBERSIDE - Division 5

4 Representatives

Mr. I.W. Barker - Mr. D. Bird

Cllr. J.M. Bramley - Mr. G.T. Phillips

WEST MIDLANDS - Division 6

3 Representatives

Cllr. J.R. Griffiths - Cllr. T. Short

Mr. T. Townsend

EAST MIDLANDS - Division 7

4 Representatives

Cllr. R.S. Chamberlain - Mr. K.R. Enderby

Mr. F. Haynes MP - Cllr. Mrs. E.J. Inglefield

LONDON AND SOUTH EAST - Division 9

9 Representatives

Dr. D. Ball - Mr. J.J. Beagle - Mr. M. Beaumont

Mr. J. Clancey - Mr. P. Cooney - Mr. H. Giblin

Mrs. E.M.L. Naylor - Dr. M.J.R. Schwar

Professor R.S. Scorer

CENTRAL SOUTHERN - Division 10

3 Representatives

Dr. R.A. Barnes - Mr. P. Hollingsworth

Mr. A.J. Rees

SOUTH WEST - Division 11

3 Representatives

Mr. H. Dawson - Mr. O. Dodds - Mr. H. Nowell

SOUTH AND MID WALES - Division 12

3 Representatives

Cllr. J.R.P. Evans - Mr. T. Jones

Cllr. H.I. Thomas

STANDING COMMITTEES

The President, Hon. Treasurer, Chairman,
Deputy Chairmen and Immediate Past Chairman
are all ex-officio members of all five
Standing Committees.

Finance and Adiministation Committee

Mr. M. Beaumont - Mr. M. Dickinson - Mr. H. Giblin

Mr. I.R. Liversidge - Cllr. T.W. Yellowley

Chairman, Conference and Promotions Committee -

Mr. A.J. Rees

Chairman, Noise Committee - Mr. H. Dawson

Chairman, Parliamentary and Local Government Committee -

Mr. R.W. Lander

Chairman, Technical Committee - Mr. W.F. Snow

Conference and Promotions Committee

Cllr. R.S. Chamberlain - Mr. K.R. Enderby

Mr. E. Gibson - Mrs. E.M.L. Naylor - Mr. H. Nowell

Mr. A.J. Rees - Cllr. H.I. Thomas

Co-opted specialists

Mr. C.J. Brooks - Mr. D. Clubb - Mr. P. Cooney

Noise Committee

Mr. G.W. Barrett - Mr. J.J. Beagle - Mr. D. Bird

Mr. P. Cooney - Mr. H. Dawson

Mr. P. Hollingsworth - Cllr. Mrs. E.J. Inglefield

Mr. T. Jones - Mr. G.T. Phillips - Mr. A.J. Rees

Dr. F.E. Shephard - Mr. T. Townsend - Mr. A.G. Ward

Co-opted specialists

Mrs. I. Brain - Mr. P. Cooper - Mr. J. Evans

Mr. A.J. Gibbon - Mr. G. Kaufman - Mr. D.R. Romaine

Dr. W.A. Utley - Mr. G.H. Vulcan - Mr. J. Wade

Parliamentary and Local Government Committee

Mr. D. Bird - Mr. O.A. Dodds - Mr. W.D. Gartside

Cllr. J. Griffiths - Cllr. Mrs. E.J. Inglefield

Mr. T. Jones - Mr. R.W. Lander - Mr. I. MacKay

Mr. J.B. Marsh - Mr. W.C.B. Robson - Mr. N.M. Ross

Cllr. T. Short - Mr. T. Townsend

Co-opted specialists

Mr. D. Bird - Mr. G.T. Phillips

Technical Committee

Dr. R.W.K. Allen - Dr. D. Ball - Dr. R.A. Barnes

Mr. G.W. Barrett - Mr. J.J. Beagle - Cllr. J.M. Bramley

Mr. P. Cooney - Mr. H. Dawson - Cllr. J.R.P. Evans

Dr. M.J.R. Schwar - Professor R.S. Scorer

Dr. F.E. Shephard

Co-opted specialists

Mr. J.H. Boddy - Dr. S.R. Craxford - Dr. M. Fox

Mr. B. Lees - Dr. C. Schofield - Mr. L. Stuffins

Dr. W.C. Turner - Mr. R.E. Waller - Dr. M. Williams

STAFF

Secretary General

Air Commodore John Langston, CBE, FBIM

Deputy Secretary General

Jane Dunmore

Administration, Accounts

Production and Sales of Publications

Administration Manager

Peter J. Mitchell

*Secretary to Secretary General and Administration Manager
Council and Standing Committees Administration*

Vanessa Draper

Membership, Publication Sales and Conference Registrations

Kathy Lennon

Editorial, Information and Public Relations

Head of Department and Editor

Jane Dunmore

Assistant Information Officer

Penny Gilbert

Research Assistant

Felicity Baker

Secretary to Information Department

Tricia Sice

WHO'S WHO

CLLR. LEN POOLE, BEM, JP, President of the Society, represents the Northern Division of NSCA; he is Vice Chairman of the Noise Committee and Past Chairman of the Society's Council. Cllr. Poole has been Chairman of the Northern Division and a member of Council since re-organisation of local government, Chairman of the Environmental Health Committee, Middlesbrough Borough Council (since re-organisation) and Member of South Tees Health Authority (representing Middlesbrough Council), Justice of the Peace since 1965, Deputy Chairman of Domestic and Adult Courts. Councillor Poole was responsible for persuading his Council to complete its Domestic Smoke Control programme by the target date of 1979 (in spite of financial cut backs). He is a Member of the Boroughs of Cleveland Pollution Control Group (Industrial Pollution), also an Executive Member and President of the Federation of Burial and Cremation Authorities, Vice-Chairman of 'Tidy North' Regional Committee and National Executive Member of Keep Britain Tidy Group and President of Middlesbrough Mentally Handicapped Society.

PROFESSOR D.G.T. WILLIAMS, MA, LLB, Immediate Past President of the Society, has been President of Wolfson College, Cambridge, since October 1980 and Rouse Ball Professor of English Law at the University of Cambridge since 1983. His academic interests lie principally in the fields of constitutional and administrative law, and in recent years he has been particularly interested in matters relating to the environment. He was a member of the Clean Air Council 1971 - 1979, of the Commission on Energy and the Environment 1978 - 1981, and of the Royal Commission on Environmental Pollution 1976 - 1983. In addition, he was a member of the Council on Tribunals, 1972 - 1982. David Williams was born in Carmarthen in Wales, went to University at Cambridge, and was called to the Bar in 1956. He was a Commonwealth Fund (Harkness) Fellow in the United States, 1956 - 1958, and taught at the Universities of Nottingham and Oxford before returning to Cambridge in 1967.

STANLEY E. COHEN, CBE, FRSA, Honorary Member and Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first city to be so controlled, and also responsible for the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he initiated action in 1964 to reduce pollution from motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made anti-pollution equipment.

KEN COLLINS, MEP, Vice President of the Society, was educated at Hamilton Academy, the University of Glasgow and

Strathclyde University. He was for three years an apprentice metallurgist with Dalziel steelworks, Motherwell, before attending university. Subsequently, he worked as a Planning Officer with Glasgow and then West Yorkshire (1965 - 1967); organiser tutor, Workers' Educational Association (1967 - 1968); teacher, Glasgow College of Building 1968 - 1970; and Lecturer in Urban Studies, Paisley College of Technology 1970 - 1979. He has been an MEP since 1979. He was a Member of East Kilbride Town and District Councils 1973 - 1979, and a Board Member, East Kilbride Development Corporation 1976 - 1979. Ken Collins is Vice-Chairman of the European Parliament Committee on the Environment, Public Health and Consumer Protection, of which he is a former Chairman.

THE RT.HON. THE EARL OF CRANBROOK, Vice President of the Society, is a graduate of the universities of Cambridge and Birmingham. From 1956 - 1970, he was employed as a biologist in several posts in S.E. Asia. Lord Cranbrook has been a member of the Royal Commission on Environmental Pollution since 1981 and of the Natural Environment Research Council since 1982. A member of sub-committee G (Environment), House of Lords Select Committee on the European Communities, he was Chairman from 1980 - 1983; also a member of the House of Lords Select Committee on Science and Technology since 1980. Lord Cranbrook is a Trustee of the British Museum (Natural History) and President of the Suffolk Trust for Nature Conservation. He is married, with two sons and a daughter, and now lives and farms in Suffolk.

DAVID F. HAYNES, MP, Vice President of the Society, was elected MP for Ashfield in the May 1979 general election. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

SIMON HUGHES, MP, Vice President of the Society, was elected MP for Southwark and Bermondsey in 1983 and has been the Liberal Party Spokesman on the Environment since that time. Educated at Christ College, Brecon and Selwyn College, Cambridge, Simon Hughes was called to the Bar in 1974 and has been in practice since 1978. Simon Hughes was Chairman of the Liberal Party Advisory Panel on Home Affairs from 1981-83 and since 1983 has been Joint President of the British Youth Council and Vice President of the National League of Young Liberals. He is joint author of "Human Rights in Western Europe; the next 30 years" and "The Prosecutorial Process in England and Wales", both published in 1981.

SIR HUGH ROSSI, MP, Vice President of the Society, was educated at Finchley Catholic Grammar School and King's College, University of London, from where he graduated with honours as a solicitor. Among other appointments, Sir Hugh was Government Whip for the Conservative Party from 1970-72 and Parliamentary Under-Secretary of State at the DOE in 1974. From 1972-3 he was Deputy Leader of the UK Delegation to the Council of Europe and the Western European Union, and has been Chairman of the House of Lords Select Committee on the

Environment since 1983. Sir Hugh was knighted in 1983 and became Knight Cmdr. St. Gregory in 1985.

MADRON R. SELIGMAN, MEP, BA, Vice President of the Society, was educated at Harrow School and Balliol College, Oxford, where he was President of the Oxford Union in 1940. Mr. Seligman has been a Member of the European Parliament representing Sussex West since 1979, and is Vice President of the Energy Research & Technology Committee of the European Parliament. He has been Chairman of the Incinerator Company Ltd. since 1960.

GARETH L. WARDELL MP, Vice President of the Society, is a graduate of the London School of Economics and Political Science. From 1972-73 he was a Lecturer in Education at Bedford College of Physical Education and from 1973-82 Senior Lecturer in Geography at Trinity College, Carmarthen. He is a Fellow of the Royal Geographical Society and has been MP for Gower since 1982. Mr. Wardell has been Chairman of the Select Committee on Welsh Affairs since 1984.

IVOR W. BARKER, FIEH, is Chairman of the Council of the Society and represents the Yorkshire and Humberside Division. He is currently engaged as a Consultant, working with Leicester Polytechnic on a project to develop distance learning packages on Pollution Control under the auspices of the Open Tech. Mr. Barker was formerly Director of Environmental Health, City of Sheffield. He started his career in Manchester and subsequently held posts in Leicester where, as Assistant CEHO, he had special responsibility for Pollution and Noise Control, and with Bracknell District Council as Chief Environmental Health Officer. He has written and presented papers on air pollution and noise and in 1976 he attended Heathrow Fourth Terminal Public Inquiry as an expert witness on behalf of the Local Authority Aircraft Noise Council.

ROBERT W.C. WHEATLEY is Immediate Past Chairman of the Council of the Society, and represents the National Coal Board. Mr. Wheatley was born in Berwick-upon-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he became Technical Marketing Director and subsequently Director (Administration and Technical). In 1983 he was appointed Director of Scientific Control: in this post he was responsible for the technical aspects of the Board's scientific service in all coalfields. Mr. Wheatley, now retired, had specific responsibilities to the Board on a wide range of scientific matters which included environmental issues and the testing of new types of solid fuel appliances and equipment. He has been a member of Council since 1966, and is Chairman of the Finance and Administration Committee.

KENNETH S. DUNN, C Eng, M Inst E, represents EPEMA (the Environmental Protection Equipment Manufacturers' Association) and is Deputy Chairman of the Society's Council. In 1969 he joined the Incinerator Company Limited, where he is now Managing Director. Mr. Dunn is a fuel technologist and had previously been an Engineering Director, with special responsibility for boiler development, with Robey and Co. Ltd of Lincoln. A member of EPEMA since its formation in 1972, he was elected Honorary Secretary in March 1973. Mr. Dunn is Deputy Chairman of the Finance and Administration Committee.

BILL F. SNOW, MIEH, InstWM, represents the North West Division, NSCA and is Deputy Chairman of the Society's Council. He commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC, Carlisle. He was appointed district Public Health Inspector to Accrington BC in 1962 and Deputy Chief Public Health Inspector to Warrington RDC in 1969. He has held his present post of Chief Environmental Health Officer to Warrington BC since 1974. Bill Snow has been a member of the North West Divisional Council since 1976 and was elected Chairman, for a 2 year term, in 1981. He has served on the Council and Technical Committee of the Society since 1979, being Chairman of the latter from November 1984.

BRIAN HARRIS EDWICK, Honorary Treasurer of the Society, is Managing Director of F.E. Beaumont Ltd. He is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers.

DR. RAYMOND W.K. ALLEN, B Sc., M Sc., Ph D, C Eng, F I Chem E, represents the Filtration Society and serves on the Society's Technical Committee. He is a member of the Academic Advisory Panel of the Hughenden Foundation. He is a chemical engineer by training and runs the gas cleaning group of the Separation Processes Service, based at the Harwell Laboratory. His principal area of interest is research into better and cheaper ways of designing air pollution control equipment. He has published over 50 papers and reports on all aspects of this subject. Dr. Allen is technical editor of the Journal, "Filtration and Separation" and a frequent industrial consultant on matters of emission control.

DR. DAVID J. BALL D.Phil, BSc, FInstP, represents the London and South East Division, NSCA. He graduated from Exeter and Sussex Universities and went on to work for the Bell System (USA), Queen Mary College London, and the National Physical Laboratory. In 1974 he joined the GLC's Environmental Sciences Division, becoming head of the Pollution Monitoring Group in 1982. Dr. Ball has participated in a number of NSCA Workshops and is a regular contributor to "Clean Air". He is a member of the UK photooxidants and precursors review group.

DR. R.A. BARNES represents the Central Southern Division, NSCA. He graduated from University College London in 1969

and was awarded his PhD in 1975 for research into the long range transport of atmospheric smoke and sulphur dioxide. After a period of mixed air pollution consultancy and university teaching during and after his PhD, he was appointed to the DOE's Central Unit on Environmental Pollution. He later joined Esso Petroleum Co. Ltd., where he is responsible for all air pollution research activities and for providing strategic environmental planning information relevant to company operations and products. In 1978 Dr. Barnes was seconded from Esso by the United Nations to prepare a consultant's report on all aspects of the long range transport of air pollution. This report was used as the technical basis for the UN ECE Convention on Transboundary Pollution.

GEORGE W. BARRETT represents the Central Electricity Generating Board. Having graduated from the University of Manchester in 1968 with an Honours degree in Physics, he was subsequently awarded an MSc in Applied Acoustics from the University of London. For three years he worked in the Acoustics Laboratory of the British Aircraft Corporation at Weybridge where he dealt with all aspects of aircraft noise. In 1972 he joined the Planning Department of the Central Electricity Generating Board where he is now a Group Head in the Environment Section. The Section deals with all aspects of environmental policy and planning for power generation.

JOSEPH J. BEAGLE, BA, MIEH, represents the London & South East and Central Southern Divisions, NSCA, having become Honorary Secretary on his retirement from local government in 1983. He was a Divisional EHO with the London Borough of Hammersmith & Fulham where he was responsible for noise and air pollution control matters, including investigations into lead pollution and asbestos control. Mr. Beagle is a member of the Technical and Noise Committees.

MAX BEAUMONT, F. Inst E, CIMG Tech E, MIPI, is Past Chairman of the Council of the Society, and represents the London and South East Division, NSCA. He was educated at Dulwich College, joined the family firm as an apprentice steeplejack and served as pilot RAFVR 1940-46. He is founder member and past Chairman of the Environmental Protection Equipment Manufacturers' Association, Past President of the National Federation of Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health and Safety Group and British Flue and Chimney Mfgs. Assoc. He is a member of 18 BSI Technical Committees and a holder of 4 British patents. Max Beaumont is Chairman of F.E. Beaumont Ltd, Steeplejacks & Engineers.

DAVID BIRD represents the Yorkshire and Humberside Division, NSCA, of which he has been Honorary Secretary since 1982, and is a member of the Parliamentary & Local Government and Noise Committees. He qualified in 1972 and worked in Derbyshire before joining Sheffield City Council in 1975 where he is now Principal Environmental Health Officer in charge of the Environmental Protection Unit dealing with air pollution,

noise, contaminated land and occupational health. David Bird is a member of the Institution of Environmental Health Officers and a supporter of Greenpeace, CND and the organic growing movement.

JOHN BODDY is a consultant on petroleum fuels and environmental matters. He is a co-opted member of the NSCA Technical Committee on which he has served for many years, and he has been a member of the London and South East Divisional Council for the past two years. In work previous to his consultancy activity he was employed by Mobil Europe Inc, Mobile Oil Co. Ltd and BP, mainly on product research and environmental matters. Mr. Boddy was also engaged in joint activities of the Motor and Petroleum Industries in Europe - on motor vehicle and engine emission control - in which sphere he chaired the Fuels Committee of the Coordinating Council for the development of performance tests for lubricants and engine fuels. He served on the Council of the Institute of Petroleum from 1979 to 1981.

CLLR. J. MAKIN BRAMLEY represents the Yorkshire & Humberside Division, NSCA. A farmer in private life, he has been a member of District Councils for 30 years and Chairman of the Environmental Health Committee for the last twelve years. He is a member of the North Yorkshire County Council and a former member of the Yorkshire Water Authority; he currently chairs the Central Consultative Committee and is Vice Chairman of the Hull and Goole Port Health Authority. Cllr. Bramley is a member of the Provincial Council and also of the Yorkshire and Humberside Pollution Advisory Council.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA, and is Deputy Chairman of the Conference & Promotions Committee. He has been a member of the East Midlands Division for eighteen years and a Member of the Council of the Society for twelve years. He has been a Member of the Ashfield District Council and Kirby-in-Ashfield UDC for twenty years, was Chairman of the Kirby-in-Ashfield UDC Health Committee from 1971/74 and Chairman of the Ashfield DC Environmental Health Committee, 1974 to 1983. Cllr. Chamberlain was elected Chairman of the Central Nottinghamshire Community Health Council in February 1981 and became a member of the Central Nottinghamshire District Health Authority in 1982. He has served as Justice of the Peace for 14 years.

JAMES C. CLANCEY, OBE, FIPHE, FIEH, FRSH (Hon), MIEnvSc, MAmerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is Vice President of the Institution of Public Health Engineers; an Honorary Fellow and life Vice President of the Royal Society of Health and a past Vice President of the Institution of Environmental Health Officers. He was Chairman of the Council of the Society, 1975/76 and has

for thirty six years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

PAUL A. COONEY represents the London and South East Division, NSCA. He is a Principal Environmental Health Officer at the London Borough of Greenwich where he heads a specialist unit responsible for pollution control. Mr. Cooney has held this post for several years and accumulated a wealth of expertise on environmental matters, providing evidence to the Royal Commission for its 9th and 10th Reports. He has a keen interest in the biological effects of lead, particularly on young children, and with colleagues in the Health Authority has been closely involved in five major blood lead studies. His unit has also been responsible for the investigation and remedial treatment of all Greenwich Council Land holdings (both developed and undeveloped) where the presence of toxic substances has posed a risk to health. At present he is deeply involved in dealing with problems posed by the presence of asbestos in private and public sector buildings, but still finds time to lecture to a variety of groups on pollution matters and currently sits on the Society's Technical and Noise Committees.

HYLTON DAWSON is the Company Safety Engineer, Rolls-Royce plc, where he is responsible for engineering cost effective safety operations across the range of Company activities. After an early introduction to acoustics, which has fascinated him ever since, he joined the aircraft industry to work on jet silencer research. He is co-patentee of two designs of silencer for supersonic jet engines and, in 1971, was awarded the President's Gold Medal of the Society of Engineers for his work on Aero Engine Noise. He has a particular interest in low frequency acoustics including the generation and suppression of low frequency noise in gas turbine installations. On the general subject of noise, he has written and lectured extensively in Europe and the Americas. Activities on behalf of the Society include: Member of Council; Chairman of the SW Division; Chairman of the Noise Committee; Member of the Technical Committee; Author of the NSCA book - 'Noise and Society'. He represents the NSCA at meetings of the International Association Against Noise and in 1986 was elected to its board of governors. Off-duty interests include do-it-yourself, gardening and the contemplative arts!

MAURICE DICKINSON, MIEH, MRSH, represents the North West Division, NSCA. He was Chief Environmental Health Officer for the Borough of Altrincham from 1957 to 1974, and the Metropolitan Borough of Trafford since Local Government Reorganisation. A Member of the Institution of Environmental Health Officers and a Member of the Royal Society of Health, he is keenly interested in all forms of pollution and is involved with the Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and at present serves on the Finance and Administration Committee. He is also a Member of the Manchester Area Council for Clean Air and Noise Control.

OSWALD A. DODDS represents the South West Division. He was a Student Public Health Inspector with Billingham UDC, then worked in the Tees-side area before moving to Doncaster MBC as Principal Environmental Health Officer, in 1975. Currently Assistant Chief Environmental Health Officer with Bristol City Council, he is responsible for all non-housing activities in the Environmental Health Department. He is a member of the Society's Parliamentary & Local Government Committee.

KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He is City Environmental Health Officer, Peterborough City Council, and has been the representative of Peterborough City Council to the NSCA for over 20 years, and a member of the East Midlands Division for 18 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference and Promotions Committee since 1974.

JOHN R. P. EVANS, ACP, MBIM, LRSC, M Ed, is Chairman of the South and Mid Wales Division, NSCA and is a member of the Technical Committee. As a Chemistry graduate, he has worked as an industrial chemist with I.C.I. Fibres and the British Steel Corporation. He taught for several years, and is currently Warden of an Adult Education Centre. Mr. Evans was elected a Member of the Rhymney Valley D.C. in 1976 and is an Executive Member of the Labour Party (Wales).

WILLIAM D. GARTSIDE represents the North West Division, NSCA. He is currently Principal EHO (Pollution and Noise Control) with Rochdale MBC. After apprenticeship and several years in the building industry he qualified as a Public Health Inspector in 1957, Meat and Other Foods Inspector in 1958 and Smoke Inspector in 1959, subsequently being appointed as specialist pollution control officer with the former C.B. of Rochdale. He is a founder member of the Manchester Area Council for Clean Air and Noise Control and member of the noise advisory working group to that Council. Mr. Gartside is a member of the Society's Parliamentary & Local Government Committee.

HARRY GIBLIN represents the London and South East Division and is a Past Chairman of the Council of the Society. He has spent all his working life in the solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 - a post from which he retired in 1983 - and in this position helped Local Authorities in the implementation of their smoke control areas. Mr. Giblin has served on the Council since 1962. He was a long-standing member of the Parliamentary and Local Government Committee and now serves on the Finance and Administration Committee, of which he was Chairman, 1980/1981.

T.ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last eight years he has been a Member of the Scottish Division, NSCA, and for the last ten years, specialist Pollution Control Officer, City of Edinburgh District Council. Mr. Gibson serves on the Society's Conference and Promotions Committee.

CLLR. JOHN R.A. GRIFFITHS represents the West Midlands Division, NSCA, and is a member of the Parliamentary & Local Government Committee. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. He was first elected to Worcester City District Council in 1973 and re-elected in 1980. Cllr. Griffiths is Chairman of the Environmental Services Committee, Worcester City DC and has recently taken early retirement after 25 years with Hereford and Worcester Fire Brigade.

DAVID ANTHONY HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC.

J. OLIVER HETHERINGTON, BA, MIEH, MIOA, represents the Northern Ireland Division. He worked with Belfast City Council as an Environmental Health Officer from 1969 until 1985, being engaged first in general environmental health duties, but specialising after a number of years in pollution control duties, having responsibility ultimately for noise control in the city as a Principal Environmental Health Officer. He is now lecturing in Environmental Health at the University of Ulster, specialising in pollution studies.

PETER HOLLINGSWORTH represents the Central Southern Division, NSCA. From 1976 - 1978 he specialised in pollution control with Sheffield MDC Environmental Health Department and from there moved on to Coventry City as Senior E.H.O. from 1978-84. He currently works for Slough BC and is Co-Vice Chairman of the Buckinghamshire branch of the Institution of Environmental Health Officers.

CLLR. MRS. ELIZABETH JANE INGLEFIELD, BA RGN, represents the East Midlands Division, NSCA, and is Deputy Chairman of the Parliamentary and Local Government Committee; she has been a member of the Divisional Council of the East Midlands for the past 11 years and is the Chairman of Housing for High Peak Borough Council. She is a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. Mrs. Inglefield is currently working for the Marie Curie Memorial Foundation as the Regional Co-ordinator of Day and Night Nursing Services for Trent, Mersey & North West Regions.

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise, toxic waste disposal, etc. He is a Past Chairman of the Gwent Branch of the Institution of Environmental Health Officers and currently the appointed Hon. Secretary of the South and Mid Wales Division, NSCA.

R.W. (BOB) LANDER, FIEH, FRSH, M Inst WM, represents the Institution of Environmental Health Officers, and serves on the Society's Parliamentary & Local Government Committee. He is Chief Environmental Health Officer to Middlesbrough Borough Council. He currently serves on the Northern Divisional Council of the Society, and previously served on the East Midlands Divisional Council. He is a Fellow of the Royal Society of Health; a Fellow and Member of the General Council of the Institution of Environmental Health Officers; a Member of the Institute of Wastes Management and he is a North East Centre Council Member of this Institute; an EHO adviser to the Association of District Councils and represents this body on the Health and Safety Executive/Local Authority Liaison (HELA) Committee; and is Chairman of the Training Sub-Committee and Local Authorities Co-ordinating Body on Trading Standards (LACOTS).

IAN R. LIVERSIDGE, FRSH, MIEH, represents the North West Division NSCA, and serves on the Finance & Administration Committee. Employed by Bolton MBC, he is the Council's Chief Officer in charge of the Environmental Health Division. He is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough continues to progress a phased programme of domestic smoke control and £182,000 is annually allocated to this work. Considerable emphasis is placed on pollution prevention by the use of planning power. Mr. Liversidge operates an Industrial Liaison Committee, which combines the talents of local industry and the Council and this body evaluates and tries to ameliorate the problems of local industry as a polluter. Within the boundaries of the authority is one of the largest and most modern motive power battery manufacturers, which is the subject of a continuous monitoring programme, and which achieves high control standards with minimal impact on the surrounding environment.

IAN MACKAY represents the Solid Smokeless Fuels Federation and is a member of the Parliamentary and Local Government Committee. Having joined the National Coal Board in 1948, he served in various departments, particularly marketing, and became District Sales Manager for Tees-side. In 1970, he joined Associated Heat Services Limited as Sales Manager and in 1982 was appointed General Manager designate for the Solid Smokeless Fuels Federation. He was Chairman of the North East Coal Industry Society in 1980. Mr. MacKay is an associate member of the Institute of Marketing.

JOHN B. MARSH, FRSH, MIEH, represents the North West Division and is a member of the Parliamentary & Local Government Committee. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post-war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 27 years. He is a Fellow of the Royal Society of Health and a Member of the Institution of Environmental Health Officers and has also been an Examiner on the IEHO Education Board for the last 18 years. With a keen interest in all forms of pollution and its prevention, he is a long-standing Member of the NSCA, the Investigation of Air Pollution Standing Conference and a Member of the Manchester Area Council for Clean Air and Noise Control.

DIGBY MORGAN-JONES represents the Industrial Gas Cleaning Association. He is a Fellow of the Institute of Chartered Accountants in England and Wales, and Partner in the firm of Wenham Crane. He has been Chairman of IGCA since 1972.

MRS. E.M.L. (PAT) NAYLOR MIHEc, MRSH, ARCA, is Chairman of the London, South East and Central Southern Divisions. She has been associated with the Women's Solid Fuel Council for 25 years and is the present Chairman of the London and Southern Region WSFC. Mrs. Naylor is a Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council and Past President of the United Kingdom Federation of Business and Professional Women. She serves on the Society's Conference and Promotions Committee.

HOWARD NOWELL has been Honorary Secretary of the South West Division since 1980. He has spent the greater part of his professional career with Bath City Council where he is now Principal Environmental Health Officer with special responsibility for environmental pollution control. He has served on numerous pollution related bodies and is currently Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee, of which he is a founder member.

GEORGE T. PHILLIPS represents the Yorkshire & Humberside Division; he has been a member of the Division since 1973 and of the Divisional Council since 1975. Born and educated in Newcastle upon Tyne, Mr. Phillips qualified as a Public Health Inspector in 1961 and holds the R.S.H. Diploma in Atmospheric Pollution Control; in 1963 he joined Cambridge City Council, being promoted to Deputy Chief Public Health Inspector in 1969. He moved to York City Council in 1973 where he is currently Chief Environmental Health Officer. Mr. Phillips is a member of the Yorkshire and Humberside Pollution Advisory Council and Chairman of its Noise Sub-Committee. He serves on the Society's Parliamentary and Local Government Committee and on its Noise Committee.

ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local

authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. From 1978 to 1983 he was Honorary Secretary of London, South East and Central Southern Divisions, and he is Chairman of the Conference and Promotions Committee.

W. CHARLES B. ROBSON has been Honorary Secretary of the Northern Division since 1982 and a member of that Division since 1974. He is Borough Environmental Health Officer for Darlington BC, a post which he has held for 10 years. From 1976-78 Mr. Robson was responsible for the direction, on behalf of the Noise Advisory Council, of the successful Darlington Quiet Town Experiment and in this context has addressed meetings in the UK and abroad and presented papers to the IEHO Congress, Planning Groups and other bodies. In 1978 he formed the Durham Districts' Pollution Liaison Committee, of which he was Honorary Secretary up till 1982. Mr. Robson serves on the Parliamentary and Local Government Committee.

NICHOLAS M. ROSS, MBIM, M Inst M, represents the Low Temperature Coal Distillers' Association. Having joined the National Coal Board in 1967, he served in Marketing Departments in Yorkshire and the Midlands. In 1978 he joined National Smokeless Fuels Ltd. and in 1981 took up an appointment with the NCB/SFAS as Sales Manager for Merseyside, West Cheshire, West Lancashire and the Isle of Man. In 1985 he was seconded to N.C.B. Industrial Branch and in May of that year joined the Coalite Group PLC and is General Sales Manager "Coalite" and a Director of Coalite Fuels and Chemicals. Mr. Ross served as Secretary of the North Midlands Coal Industry Society from 1970 - 1979 and took the Chair in 1980. He is Chairman designate of the SSFF Publicity Committee and is the LTCDA representative on SFAS Regional Committees in Yorkshire, North West and London and is a co-opted member of the East Midlands Division of the NSCA.

DR. MIKE J.R. SCHWAR, PhD, MSc, BSc, DIC, MInstP, represents the London and South East Division, NSCA. He obtained his first degree in Physics and a PhD in Combustion Physics from London University following researches at Imperial College of Science and Technology, Department of Chemical Engineering and Chemical Technology. Dr. Schwar has worked for Thorn Electrical Industries, the University of Wisconsin and the Paint Research Association. In 1974 he joined the Greater London Council Scientific Branch as Building Physics Section Leader and since 1976 has been responsible for Air Pollution matters in the Environmental Science Divisions of what is now London Scientific Services. He has presented various papers on air pollution and has addressed NSCA Conferences and Workshops. Dr. Schwar is Deputy Chairman of the Technical Committee.

PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and South East Division, NSCA, and serves on the Society's Technical Committee. He was Chairman of the Council of the Society 1978/79. His Books include 'Air Pollution'

1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5. He was appointed as Lecturer (Meteorology) Imperial College, 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon.Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmos. Env.). He was a member of the Clean Air Council from 1968 until its demise and Chairman of CAC's Technical Committee from its inception. He was an Alderman, London B. of Merton (1971/78) and on the Metropolitan Water Board 1971/74. Professor Scorer was awarded the title Emeritus Professor in 1982 and is now a Senior Research Fellow in Mathematics and Environmental Technology at Imperial College.

FRANK E. SHEPHARD, BSc, PhD, FRIC, CChem, FRCS, CEng, FIGasE, represents the British Gas Corporation and the Institution of Gas Engineers. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. He is now an Assistant Manager responsible for the Environmental Studies Group within the Analytical Division of London Research Station. He also has a special responsibility for outdoor environmental matters within the R & D Division of British Gas. He is a member of the Institution of Gas Engineers Environmental Studies Committee, and also serves on the Society's Technical and Noise Committees.

CLLR. TERRY SHORT is Chairman of the West Midlands Division and a member of the Parliamentary and Local Government Committee. He has been a member of Bedworth Urban District and later Nuneaton and Bedworth Borough Councils since 1971 and since that time has been involved in both the Warwickshire Environmental Council and the Midlands Association of Local Authorities Joint Advisory Council for Noise and Pollution Control; he is currently Vice Chairman of the latter. Cllr. Short is interested in all aspects of the environment, both urban and rural.

CLLR. HARRY I. THOMAS represents the South and Mid Wales Division, NSCA, and is a member of the Conference & Promotions Committee. He was first elected as a Councillor in May 1967 and for the past 7 years has been Chairman of the Environmental Health Committee to the Lliw Valley Borough Council. Having represented his Authority on the South and Mid Wales Division, NSCA, he has been Chairman of the Division

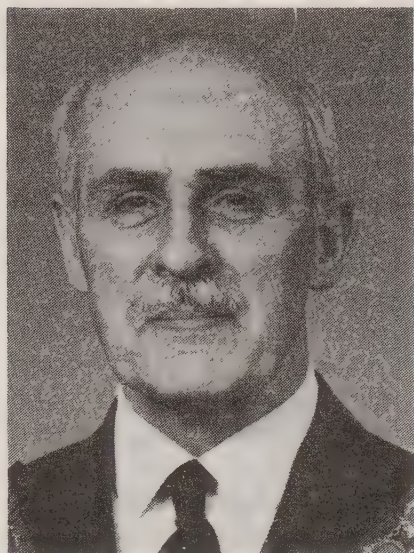
since 1983. Councillor Thomas is also his Council's representative on the West Glamorgan Joint Environmental Pollution Committee, and is Chairman of the Gower Local Consumer Advisory Committee of the Welsh Water Authority.

TREVOR TOWNSEND, MIEH, FRSH, represents the West Midlands Division and is a member of the Parliamentary and Local Government Committee and the Noise Committee. He is currently Assistant Director of Environmental Health and Consumer Services with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, mainly specialising in environmental pollution. He is the Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control and is currently a lecturer and examiner for both the Environmental Health Officers Examination Board and the Royal Society of Health's Diploma in Air Pollution Control.

AUBREY G. WARD represents the North West Division, NSCA, and is a member of the Noise Committee. In previous years (1964-74) he has served on the N.W. Divisional Council, the National Council and the Parliamentary and Local Government Committee; until 1974 he was Assistant Technical Officer to the SELNEC Standing Conference on Air Pollution. Mr. Ward held appointments at Salford, Manchester and at Eccles until its completion of smoke control in 1974 and then with the City of Salford which became the first MBC to complete its smoke control programme in 1977. Mr. Ward is currently the Publicity Officer to the Manchester Area Council for Clean Air and Noise Control, having served on the Technical Committee and Noise Working Group.

MRS. ELIZABETH WARNOCK represents the Women's Solid Fuel Council of which she is Chairman. She has a long-standing connection with the Scottish Women's Rural Institute, having been their representative on the Electricity Board Local Consumer Council, convenor of the SWRI magazine, Federation Chairman and President of the local branch for 25 years. Mrs. Warnock was awarded the Queen's Silver Jubilee Medal for services to the Scottish Women's Rural Institute; she is married to a farmer and has a son and two daughters.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected to the Newcastle-upon-Tyne City Council in May 1963 and is Chairman of the Health and Environment Committee and also of the AMA General Services Committee. Cllr. Yellowley was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977 and Vice Chairman again 1979-86. He currently serves on the Finance and Administration Committee.



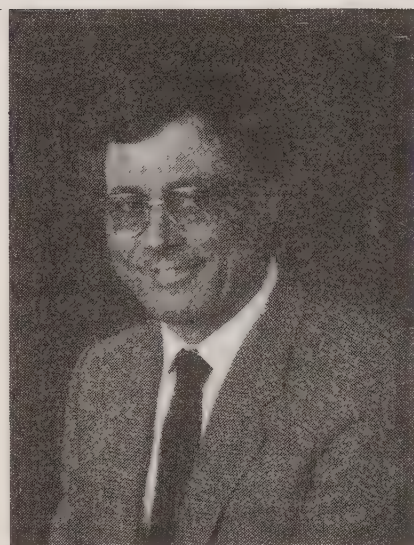
THE PRESIDENT



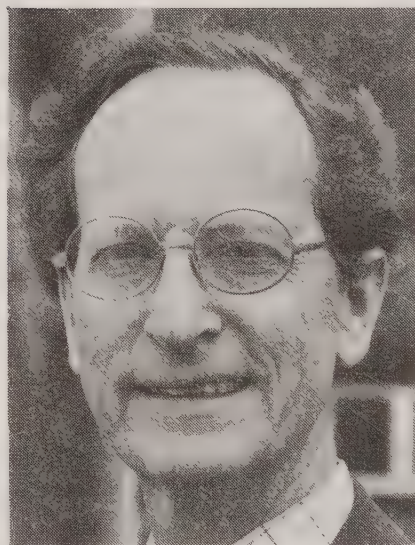
PROF. D. WILLIAMS



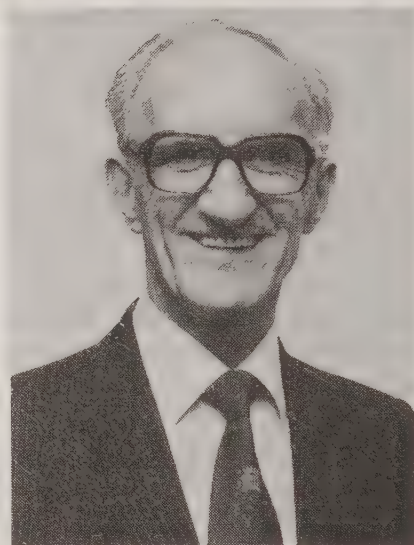
S.E. COHEN



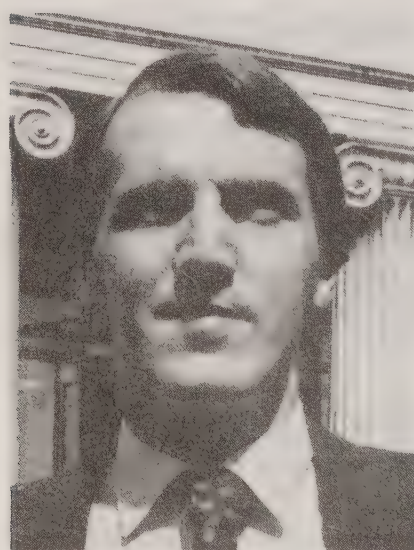
K. COLLINS



LORD CRANBROOK



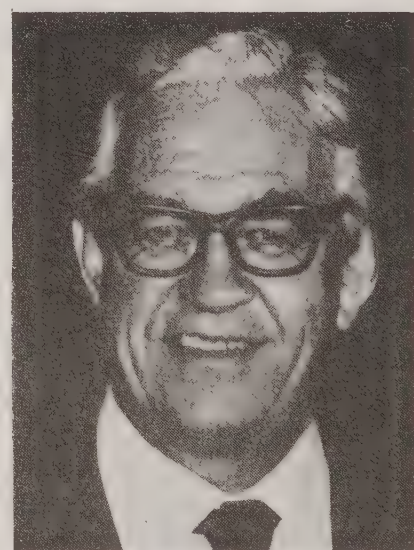
F. HAYNES



S. HUGHES



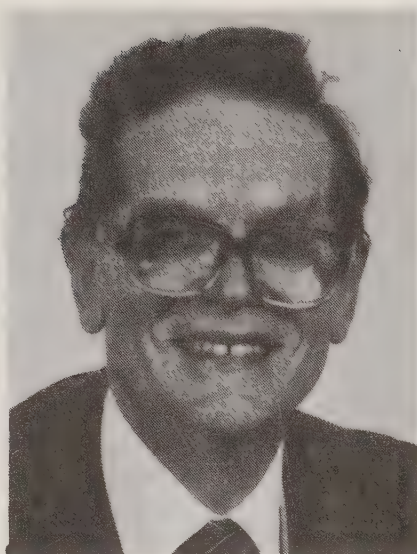
SIR HUGH ROSSI



M. SELIGMAN



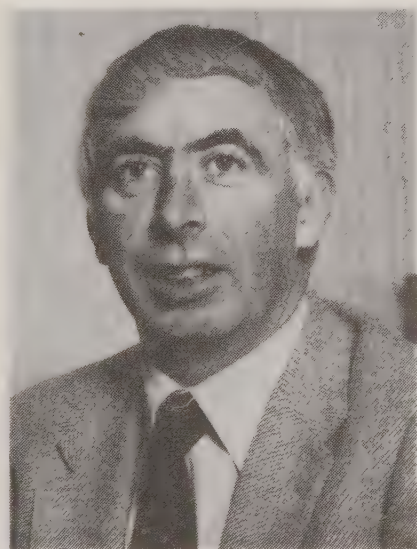
I.W. BARKER



R.W.C. WHEATLEY



K.S. DUNN



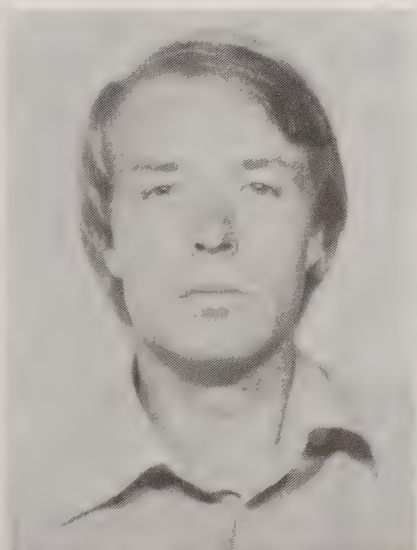
W.F. SNOW



B.H. EDWICK



DR. R.W.K. ALLEN



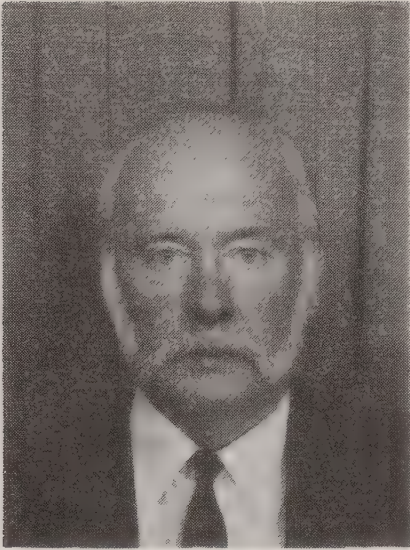
DR. D.J. BALL



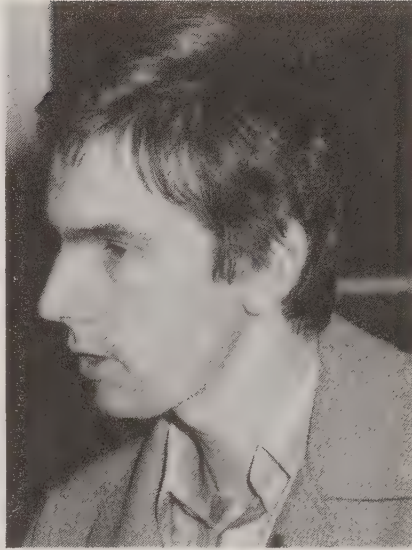
DR. R.A. BARNES



J.J. BEAGLE



M. BEAUMONT



D. BIRD



J. BODDY



J.M. BRAMLEY



R.S. CHAMBERLAIN



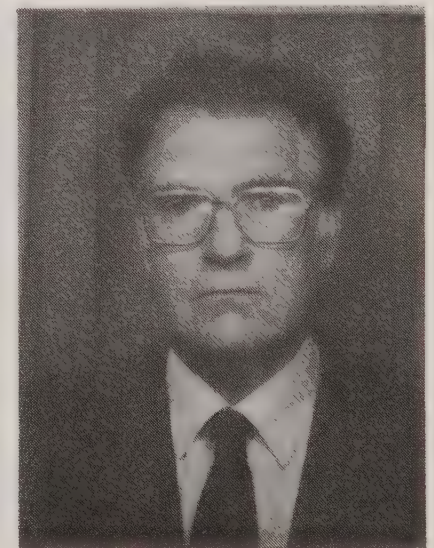
J.C. CLANCEY



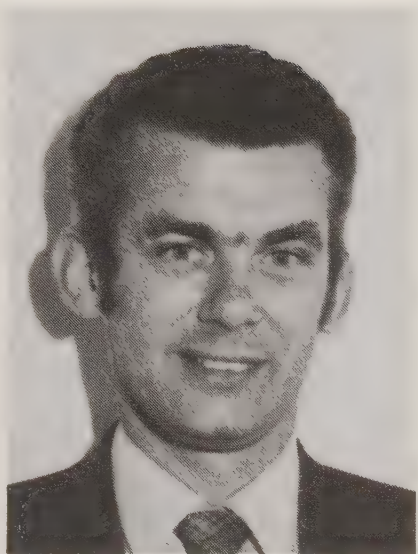
P.A. COONEY



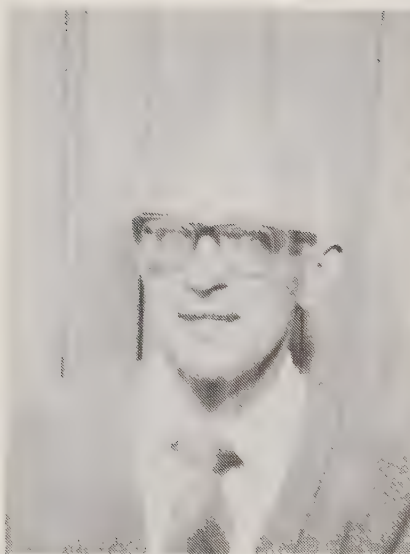
H. DAWSON



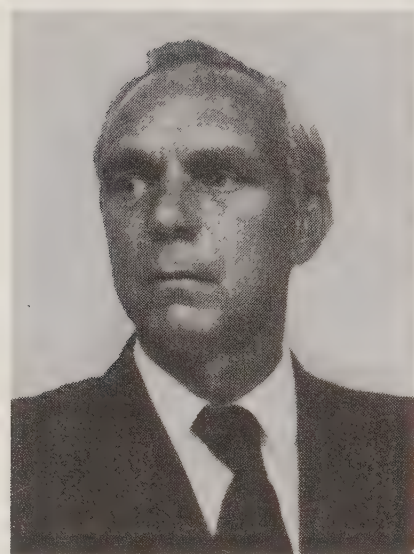
M. DICKINSON



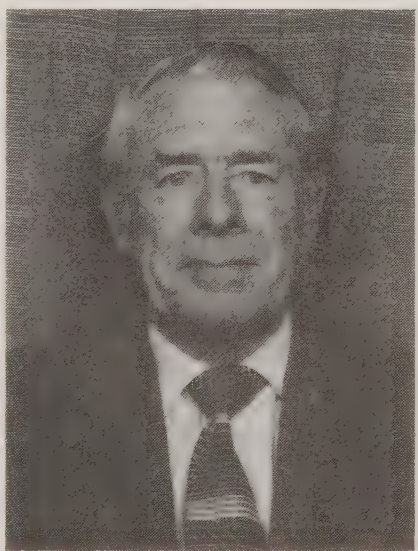
O.A. DODDS



K.R. ENDERBY



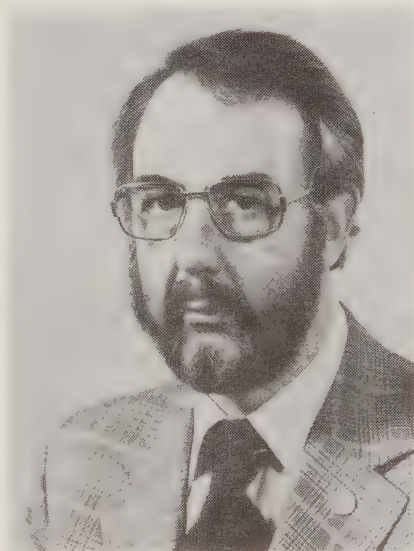
W.D. GARTSIDE



H. GIBLIN



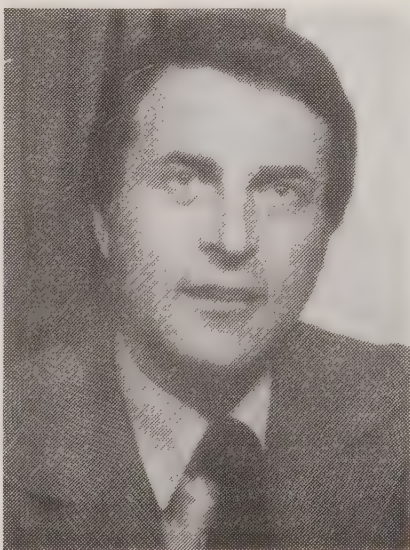
J.R.A. GRIFFITHS



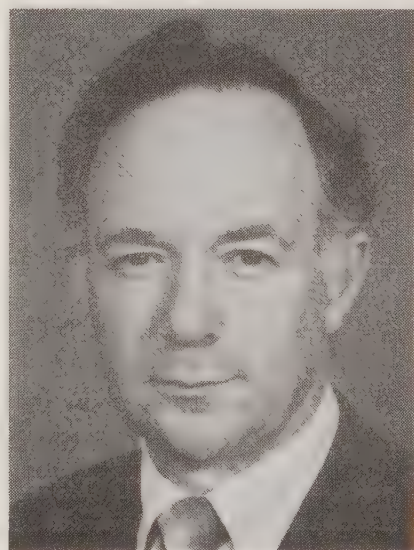
D.A. HARRISON



MRS. E.J. INGLEFIELD



T. JONES



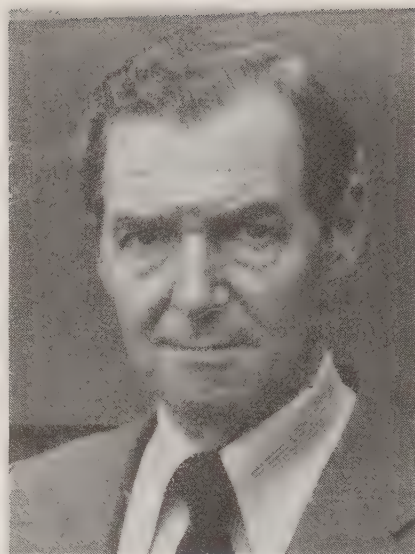
R.W. LANDER



I.R. LIVERSIDGE



I. MACKAY



J.R. MARSH



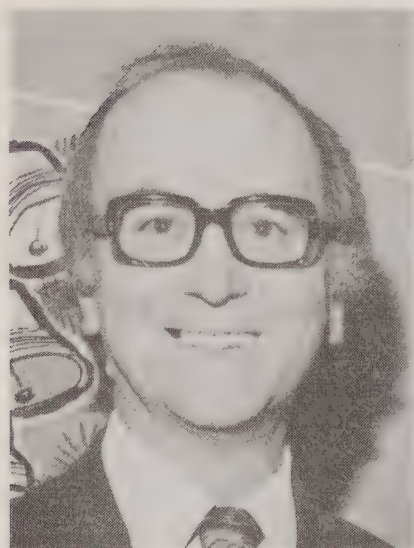
MRS. E.M.L. NAYLOR



H. NOWELL



A.J. REES



W.C.B. ROBSON



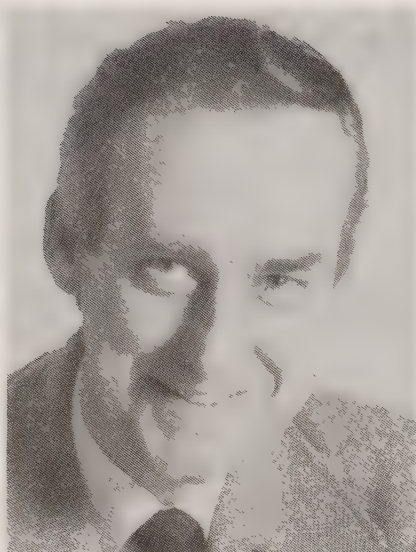
N.M. ROSS



DR. M.J.R. SCHWAR



PROF. R.S. SCORER



F.E. SHEPHARD



T. SHORT



H.I. THOMAS



T. TOWNSEND



A.G. WARD



MRS. E. WARNOCK



T.W. YELLOWLEY

DIVISIONAL MEMBERSHIP & REPORTS

DIVISION ONE SCOTTISH DIVISION

Hon. Secretary:

F.J. Feeley,
c/o The Building & Works Department,
City of Glasgow DC,
266 George Street,
GLASGOW.
Telephone : 041 227 4765

No report received.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Glasgow, City of

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Hamilton District Council
Inverclyde District Council
Monklands District Council
Motherwell District Council
Renfrew District Council

CORPORATE MEMBERS

British Steel Corporation
(Scottish Division)
Lothian Health Board

INDIVIDUAL MEMBERS

Anderson, R.P.
Blair, J.A.
Bulcraig, Dr. W.R.*
Cannavan, Mrs. M.
Christie, J.H.
Clark, B.
Dunlop, W.A.
Foreman, J.*
Jackson, J.
Kelly, B.
MacPherson, I.
McGhie, J.R.*
Watson, D.M.*

DIVISION TWO NORTHERN IRELAND DIVISION

Chairman:

Cllr. Mrs. D. Dunlop

Hon. Secretary:

J.O. Hetherington,
15 Casaeldona Rise,
BELFAST BT6 9RA.
Telephone: (0232) 794185

No report received.

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim Borough Council
Ards Borough Council
Armagh Borough Council
Ballymena Borough Council
Belfast City Council
Carrickfergus Borough Council
Castlereagh Borough Council
Coleraine Borough Council
Cookstown District Council
Craigavon Borough Council

Derry City Council
Larne Borough Council
Lisburn Borough Council
Newry & Mourne District Council
Newtonabbey Borough Council

CORPORATE MEMBERS

Coal Advisory Service
Eastern Health & Social Services Board

INDIVIDUAL MEMBERS

Hanna, B.P.

**DIVISION THREE
NORTHERN DIVISION**

(Cleveland, Cumbria, Durham,
Northumberland, Tyne & Wear.)

Chairman:

Cllr. L. Poole

Hon. Secretary:

W.C.B. Robson,
Borough Environmental Health Officer,
Darlington Borough Council,
Town Hall,
DARLINGTON DL1 5QU.
Telephone: (0325) 380651

The Northern Division held three meetings in the year including the Annual General Meeting at Carlisle which 59 members attended. With an attendance of 68 at Killingworth and 55 at Hartlepool, the total for the year was 182; this represents 55% attendance in 1985/6 compared with 46% in 1984/5.

The Killingworth meeting was hosted by the Norgas Research Station and enjoyed an illustrated talk, "Gas in the 90s", given by Mr. D. Williams, Regional Development Manager of Norgas. Mr. Williams explained the changing needs of the consumer: the trend towards small housing units and lower output heating systems; and the development of modular heating systems which could be extended and adapted as circumstances required.

Most of the authorities in the Division were represented at the AGM at Carlisle; business was completed in the morning and a talk presented in the afternoon on the work of the Sellafield complex by British Nuclear Fuels. This well illustrated presentation was followed by questions from the meeting regarding concern for the environment; the health of employees and residents; and the potential effect on agriculture and marine life.

This year has seen the Northern Division again basking in the glory of our Chairman, Councillor L. Poole, MBE, JP, who was elected to the office of National President. We congratulate him on attaining this position and I am most appreciative of the help that Cllr. Poole has given to me over this year.

W.C.B. ROBSON
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas
British Coal
Central Electricity Generating Board
(North Eastern Region)
Industrial Air Pollution Inspectorate

LOCAL AUTHORITY MEMBERS

Allerdale District Council

Barrow-in-Furness Borough Council
Blyth Valley Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Derwentside District Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaurgh Borough Council
Middlesbrough Borough Council

Newcastle upon Tyne, City of
North Tyneside Metropolitan
Borough Council
Sedgefield District Council
South Tyneside Metropolitan
Borough Council
Stockton-on-Tees Borough Council
Sunderland Metropolitan Borough Council
Teesdale District Council
Wansbeck District Council

CORPORATE MEMBERS

British Steel Corporation
(Teesside Division)
Coal Merchants Federation of
Great Britain (Northern Region)

DIVISION FOUR

NORTH WEST

(Cheshire, Clwyd, Greater Manchester,
Gwynedd, Lancashire, Merseyside.)

Chairman:

D.R. Horner

Hon. Secretary:

K. G. Kaufman,
Divisional Environmental Health Officer,
(Pollution Control),
Tameside MBC,
Council Offices,
Wellington Road,
ASHTON-UNDER-LYME
OL6 6DL.
Telephone : 061 330 8355

INDIVIDUAL MEMBERS

Calvert, Mrs. M.R.
Cayton, S.*
Cresswell, C. (Hon. Member)
Emerson, R.
Fisher, A.H.
Isaac, Professor P.C.G.*
Mair, L.*
Rutherford, I.J.
Sugden, F.G.*

General Divisional activities were not as frequent as in the past due partly to pressure of work on Officers of the Division and partly because fewer firms could accommodate the numbers wishing to attend outside visits.

A visit was made, however, to the Salford Refuse Treatment Plant, followed by a lecture and demonstration at the University of Manchester Institute of Science and Technology. The subject was the MANOIL process for converting refuse and waste material into oil, a useful fuel source for Third World countries.

Two Divisional Council Meetings were held and matters of concern included the need to encourage membership of private firms and educational establishments and also the need to keep members aware of Society activities - a Newsletter has been started as a way of achieving this.

Mr. Douglas, Hon. Secretary and Treasurer, announced his impending resignation although his interest in the Division will continue in his new capacity as Vice Chairman. National Committee representatives - particularly Mr. W.F. Snow - were thanked for their activities within the Society and for their reports back to the Division.

J.B. DOUGLAS

Honorary Secretary

Editor's Note

Brian Douglas, who served as Honorary Secretary of the North West Division for some eight years, handed over as from 23 January 1987 to Geof Kaufman. Among Brian's many achievements during his term of office was his key role in the success of the bi-annual seminars, and the schools essay and poster competitions, organised by the Division. The Society is deeply grateful to Brian for his unstinting help and commitment as Hon. Secretary of the North West and welcomes his appointment as Vice Chairman of the Division.

MEMBERSHIP LIST**SUSTAINING MEMBERS**

British Gas,
British Coal
Central Electricity Generation Board
(North West Region)
Cheshire County Council
Industrial Air Pollution Inspectorate
Liverpool, City of
Shell UK Limited

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bolton Metropolitan Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Halton Borough Council
Hyndburn, Borough of
Knowsley, Metropolitan Borough of
Macclesfield Borough Council
Manchester City Council
Oldham Metropolitan Borough Council
Pendle Borough Council
Ribble Valley Borough Council
Rochdale Metropolitan Borough Council
Rossendale Borough Council
Salford City Council
Sefton Metropolitan Borough Council
South Ribble Borough Council
St Helens Metropolitan Borough Council
Stockport, Metropolitan Borough of
Tameside Metropolitan Borough Council
Trafford Metropolitan Borough Council
Warrington Borough Council
West Lancashire District Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

CORPORATE MEMBERS

Acid Rain Information Centre
Coal Merchants Federation of
Great Britain (North West Region)
Manchester Area Council For Clean
Air and Noise Control
Metal Box Engineering
The University of Manchester
Institute of Science & Technology
- Pollution Research Unit
The Woolton Society

INDIVIDUAL MEMBERS

Allen, J.K.
Cain, J.
Cass, H.V.*
Christian, F.V.*
Cook, Miss. H.M.
Evans, T.
Fallows, W.B.*
Foskett, E.W.
Franklin, N.J.
Fraser, I.M.
Gee, J.
Gee, Mrs. J.
Hall, A.
Hayward, P.G.
Hendy, Dr. B.
Hollingdale, R.A.W.*
Hughes, T.*
Kennedy, M.A.
Kenyon, H.
Lloyd, A.
Lowe, T.H.
Mather, Sir. W.*
Mayall, A.
McGauley, H.J.
Mercer, I.G.
Parsonage, H.*
Pollitt, W.E.*
Slingsby, N.J.
Vanstone, H.B.*
Winder, F.*
Yates, C.J.

**DIVISION FIVE
YORKSHIRE AND HUMBERSIDE**
(Humberside, North Yorkshire,
South Yorkshire, West Yorkshire.)

Chairman:

I.W. Barker

Hon. Secretary:

D. Bird,

Environmental Health Department,
Sheffield City Council,

1 Barkers Pool,

SHEFFIELD,

S1 1EN.

Telephone: (0742) 734643

Four meetings have been held during the year: at Hull on 29 October, at Cleethorpes on 15 January and at Doncaster where a meeting was held on 17 July and also the AGM later in the year. Two of these meetings involved visits: the first to Holmes Hall Tanners Limited at Hull and the second to Courtaulds at Grimsby to examine their refuse derived fuel plant.

The third meeting, at Doncaster, was addressed by Edwin Tomlinson of the Industrial Air Pollution Inspectorate on the work of the IAPI in relationship with local authorities. At a time of unprecedented change and reviews in air pollution legislation, it is heartening to note that after years of campaigning by the NSCA, the IAPI is to be returned to the Department of the Environment. Close co-operation between the Inspectorate and local authorities in working together for a better environment is more important now than ever as Mr. Tomlinson's paper illustrated.

There have been a number of comings and goings during the year, particularly as elected members have changed. I would especially like to note the departure of Cllr. Ray McElvenney who, as Chairman of the Division, has given great service, always taking a keen interest and making an excellent representative for the Division.

This is the last annual report I shall be presenting for the Yorkshire and Humberside Division as I am standing down as Secretary at the end of this constitutional year. I would like to thank the entire Division and its membership for their support during my years of office. I am particularly grateful to the many individuals within the Division without whom the Secretary's job would have been untenable - those who have helped organise meetings and who have responded positively to initiatives, questionnaires and correspondence.

D. BIRD

Honorary Secretary

Editor's Note

David Bird has served as Hon. Secretary of the Yorkshire and Humberside Division for five years. His personal conviction of the importance of the Society's work has been the mainspring of

his constant efforts to recruit new members to the Division and to encourage existing members to play an active role. This has resulted in a very positive contribution from the Division to the Society's effort overall, and David Bird's enthusiastic work as Honorary Secretary is greatly appreciated.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(North eastern Region)
Industrial Air Pollution Inspectorate
Leeds City Council
Sheffield District Council

LOCAL AUTHORITY MEMBERS

Barnsley Metropolitan Borough Council
Calderdale Borough Council
Cleethorpes District Council
Doncaster Metropolitan Borough Council
Great Grimsby Borough Council
Harrogate Borough Council
Kingston upon Hull City Council
Kirklees Metropolitan Borough Council
Richmondshire District Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
Wakefield City Council
York City Council

CORPORATE MEMBERSP

Atkins & Downie
British Steel Corporation
Redburn Engineering Limited
Union Carbide UK Limited
Yorkshire & Humberside
Pollution Advisory Council

INDIVIDUAL MEMBERS

Barker, I.
Clarke, Dr A.G.
Gittins, M.J.
Green, G.H.
Hutton, K.*
Lane, Dr J.J.
Myers, P.
Perry, A.W.*
Saword, A.C.*
Scott, J.A.
Store, N.J.
Tomlinson, E.S.
Tweed, R.J.
Twyford, W.B. (Hon. Member)
Wilcock, T.G.

DIVISION SIX

WEST MIDLANDS DIVISION

(Hereford & Worcester, Salop, Staffordshire,
Warwickshire, West Midlands.)

Chairman:

Cllr. T. Short

Hon. Secretary:

L. F. Medlycott,
Department of Planning and Environmental Services,
P.O. Box 212,
Malinslee House,
TELFORD,
Shropshire
TF3 4LL.
Telephone (0952) 505051 Extn. 2510

The Division's 35th Annual General Meeting was held on 17 March 1986 at the Town Hall, Redditch when 21 representatives from local authorities and IAPI were present. The meeting re-elected Cllr. Short as Chairman; Cllr. Griffiths as Vice Chairman; Mr. L.F. Medlycott as Honorary Secretary and Mr. D. Spurrier as Honorary Treasurer. Mr. R. Key was elected Divisional Auditor. Cllrs. T. Short, J. Griffiths and Mr. T. Townsend were elected as Divisional representatives on the Society's Council.

The afternoon meeting heard a talk by Dr. S.A. Simmons of Midland Environment Limited on nitrogen dioxide monitoring in the West Midlands. The project, instigated by the DOE, would run for one year under the direction of Midland Environment Limited and involve the active participation of some nine local authorities.

On the 1st December, 1986 a general meeting was held which took the form of a visit to the British Cast Iron Research Association at Alvechurch, Birmingham, when 20 representatives attended. The first part of the meeting was devoted to reports to the Division from its three members of Council. Mr. T. Townsend, who had represented the Division at the Society's Annual Conference at Blackpool, gave a resume of the papers that had been presented. Following lunch, a tour of the BCIRA premises and its foundry was made by the members. BCIRA carries out research and investigation for the foundry trade as well as acting as an outside consultancy service to other industries. In recent years, it has done a great deal of work on the health and safety problems in the foundries as well as acting for the industry when dealing with pollution of the external environment.

The Working Party which was set up by the Division to investigate the emission of lead from cold-blast cupolas has continued to work throughout the year, meeting some six times. It is now currently considering its draft final report and it is anticipated that the report will be printed in the spring of 1987.

L.F. MEDLYCOTT Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham City Council
British Coal
British Gas
Industrial Air Pollution Inspectorate

LOCAL AUTHORITY MEMBERS

Coventry City Council
Dudley Metropolitan Borough Council
Hereford City Council
Newcastle-under-Lyme Borough Council
North Warwickshire Borough Council
Nuneaton District Council
Redditch District Council
Sandwell Metropolitan Borough Council
South Staffordshire District Council
Stoke-on-Trent City Council
Walsall Metropolitan Borough Council
Warwick District Council
Wolverhampton Borough Council
Worcester City Council
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

Lodge-Cottrell Limited
University of Aston in Birmingham, The

INDIVIDUAL MEMBERS

Cross, R.A.
Hancock, Miss E.
Hulme, B.
Longley, J.C.*
Morris, D.R.
Norton, R.
Pocock, Dr R.L.
Reynolds, F.
Simmons, Dr S.A.
Stuffins, L.N.
Sulway, Mrs K.J.
Taylor, Mrs & Mrs C.B.*

DIVISIONS SEVEN AND EIGHT
EAST MIDLANDS DIVISION

(Cambridgeshire, Derbyshire, Leicestershire,
Lincolnshire, Northamptonshire, Nottinghamshire.)

EASTERN DIVISION

(Essex, Norfolk, Suffolk.)

Chairman:

Cllr. F.E. Holland

Hon. Secretary:

E. F. Raven

Housing and Environmental Services Department

The Council House,

Corporation Street,

DERBY

DE1 2FD.

Telephone : (0332) 31111 Ext. 650

A very well attended Annual General Meeting was held in Mansfield where the District Council were our hosts and Metal Box Plc. provided our speaker and our visits in the afternoon. In the autumn we were guests of the Central Electricity Generating Board at their Ratcliffe on Soar Power Station where we were shown the Board's film on Acid Rain and later conducted round parts of the Power Station. Our final Divisional Meeting covered by this Report was at Chesterfield at the premises of Robinson and Sons. In the morning, speakers from British Coal talked to us about pressurised fluidised bed boilers and later in the day we were all able to see two of these working and also to see other aspects of the Company's production.

The Divisional Council has met twice at Kelham and once at Eastwood Hall. We are indebted both to the Newark and Sherwood District Council and to the Solid Fuel Advisory Service for meeting facilities and in the latter instance for hospitality. Our topics of discussion have mirrored fairly closely what is happening at national level and we are indebted to our members of the Council of the Society for the information they bring to us. Equally, the Division is well served by its co-opted members and by the comment and advice they bring from their respective walks of life.

My thanks also go to our Honorary Auditor, Mr. J.B. Sheard and our Scrutineers, Mr. A.A. Wild and Mr. J.T. Hague.

On a personal note, I would like to say that it has been a pleasure to work with Cllr. Holland and to hope that the enthusiasm in the Division, which has made my job of Secretary always seem worthwhile, will be maintained.

E. F. RAVEN

Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(Midlands Region)
Coalite Group PLC
Incinerator Company Limited, The
Rexco limited
Rolls-Royce Limited

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston Borough Council
Cambridge District Council
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby City Council
Erewash Borough Council
Fenland District Council
Gedling District Council
Harborough District Council
High Peak Borough Council
Hinckley & Bosworth Borough Council
Huntingdon District Council
Leicester City Council
Lincoln City Council
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire
District Council
Nottingham City Council
Peterborough City Council
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough Borough Council
West Derbyshire District Council

CORPORATE MEMBERS

British Steel Corporation
Leicester Polytechnic
Low Temperature Coal
Distillers Association
Solid Smokeless Fuels Federation

INDIVIDUAL MEMBERS

Bacon, P.
Brown, A.H.
Clayton, H.M.
Davis, D.*
Ffowcs Williams, Professor J.E.
Hall, J.E.*
Haynes, F.
Hunt, Dr J.C.R.
Inglefield, Mrs E.J.
Richards, Dr J.M.
Rigby, J.
Riley, Dr R.V.*
Romaine, D.R.
Stewart, Mrs E.E.*
Stringer, P.G.
Turner, Miss H.E.
Turner, T.H.*
Weldon, Miss G.M.*
Wright, G.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Industrial Air Pollution Inspectorate

LOCAL AUTHORITY MEMBERS

Basildon District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Norwich District Council
Thurrock Borough Council

CORPORATE MEMBERS

Ford Motor Company Limited
Purified Air Limited

INDIVIDUAL MEMBERS

Baker, N.
Dobson, P.F.
Fisher, J.G.
Goodfellow, J. (Hon. Member)
Jones, T.H.
Parsons, E.
Stephenson, Dr R.J.*
Wade, J.T.
Waldron, Mr & Mrs R.A.

DIVISIONS NINE AND TEN

LONDON AND SOUTH EAST DIVISION

(East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.)

CENTRAL SOUTHERN DIVISION

(Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.)

Chairman:

Mrs. G.E. Naylor

Hon. Secretary:

J.J. Beagle

19 Oxgate Gardens

BRENT

NW2 6EA.

Telephone : 01 452 0203

The 31st AGM of the Division was held at Hobart House, HQ of British Coal, on Tuesday June 17th 1986. 21 members of the Society attended. The Chairman, Mrs. G.E. Naylor, reported that membership of the Division had increased slightly over the period 1984/85. There are now 16 sustaining members, 26 corporate members, 57 local authority members and 81 individual members.

The following Officers were re-elected :

Mrs. G.E. Naylor - Chairman

Mr. A.J. Rees - Deputy Chairman

Mr. J.J. Beagle - Hon. Secretary

Re-elections to the Divisional Council were :

Dr. D.J. Ball, J.H. Boddy, A.E.R. Budd, P.A. Cooney, B.R. Nagle and J. Wade. Mr. Armstrong was newly elected.

Representing the London and S.E. Division, Council Members re-elected were:

Mrs. G.E. Naylor, M. Beaumont, J. Clancey, Dr. M.J.R. Schwar, Prof. R.S. Scorer, H. Giblin, J.J. Beagle, P. Cooney and Dr. D.J. Ball.

Representing the Central Southern Division, Council Members re-elected were :

A.J. Rees, Dr. R. Barnes and Mr. P. Hollingsworth.

Co-opted, newly elected members were Mr. J. Downs, HSE, and Cllr. L. Solkhon, Brighton BC.

In May, 1986 Ken Dorman, our Honorary Auditor, resigned from the Division in order to take up the post of Chief Environmental Health Officer with the City of Gloucester. We wish him every success in his new job and thank him for past services rendered. Mr. B.R. Nagle has taken over the office of Hon. Auditor.

After the AGM, the meeting was addressed by Mr. T. Henshaw OBE of the Marketing Department of British Coal on the utilisation of coal and the latest technologies to reduce air pollution. In addition, Prof. Scorer of Imperial College gave an

illustrated talk on the use of satellite pictures as an aid to the meteorological study of air pollution.

March 1986 saw the demise of the GLC, including the Scientific Services Branch. As a Division, we recorded our thanks to the officers of that Branch for the help, expert advice and co-operation shown over the past years. It is gratifying to know that the Branch continues as London Scientific Services, an agency service of the London Residuary Body set up to look after the interests of the late GLC.

Visits during 1985 were made to the GLC Refuse Incineration Plant at Edmonton, the Thames Flood Barrier at Woolwich and the Ford Motor Company Research and Engineering Establishment at Laindon in Essex.

J. J. BEAGLE
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

BP Oil Limited
 British Coal
 British Gas
 Central Electricity Generating Board
 Coal Merchants Federation of
 Great Britain
 Environmental Protection Equipment
 Manufacturers Association
 Esso Petroleum Company Limited
 Industrial Air Pollution Inspectorate
 Shell International Petroleum Co Ltd
 Shell UK Oil Limited

LOCAL AUTHORITY MEMBERS

Adur District Council
 Barking & Dagenham, London Borough of
 Barnet, London Borough of
 Bexley, London Borough of
 Brent, London Borough of
 Brighton Borough Council
 Bromley, London Borough of
 Broxbourne Borough Council
 Camden, London Borough of
 Crawley Borough Council
 Dacorum Borough Council
 Dartford Borough Council
 Dover District Council
 Ealing, London Borough of
 Eastbourne Borough Council
 Elmbridge Borough Council
 Enfield, London Borough of
 Epsom & Ewell District Council
 Gravesham Borough Council
 Greenwich, London Borough of
 Guildford Borough Council
 Hackney, London Borough of
 Hammersmith & Fulham,
 London Borough of
 Harrow, London Borough of
 Havering, London Borough of
 Hounslow, London Borough of
 Islington, London Borough of
 Kensington & Chelsea, Royal Borough of
 Kingston upon Thames, Royal Borough of

Lewes District Council
 Lewisham, London Borough of
 London, City of
 Merton, London Borough of
 Richmond upon Thames, London Borough of
 Rochester upon Medway Borough Council
 Southwark, London Borough of
 Surrey Heath Borough Council
 Sutton, London Borough of
 Tower Hamlets, London Borough of
 Watford Borough Council
 Westminster, City of
 Woking Borough Council
 Worthing Borough Council

CORPORATE MEMBERS

Atkins W.S. Group Limited
 Babcock Power Limited
 Bacons School
 Blue Circle Industries
 British Steel Corporation
 Confederation of British Road
 Passenger Transport
 Finch, S.R. & Co
 Guinness, A. Son & Co (Park Royal)
 Imperial Chemical Industries
 Industrial Gas Cleaning Association
 Institute of Petroleum, The
 Institution of Environmental Health
 Officers, The
 Institution of Gas Engineers, The
 Johnson Matthey Chemicals Limited
 McCrone Research Institute Limited
 North East Surrey College of Technology
 Policy Studies Institute
 South East London Technical College
 St Thomas's Hospital Medical School,
 Department of Community Medicine
 Tottenham College of Technology
 Womens Solid Fuel Council

INDIVIDUAL MEMBERS

Ades, R.
 Ball, D.J.
 Beaumont, M.
 Beckwith, P.
 Bevington, C.F.P.

Boddy, J.H.*
 Bond, Professor G.C.
 Brown, H.
 Brown, T.
 Butler, J.W.*
 Churchill, J.
 Clancey, J.*
 Clark, Dr A.
 Clarke, Mrs B.
 Cohen, S. (Hon. Member)
 Colville, Lt. Commander R.F.*
 Conrad, A.
 Craxford, Dr S.R.*
 East, R.G.
 Fernando, L.
 Fitzgerald, N.
 Fox, A.H.
 Frankland, R.*
 Gandy, Miss R.L.*
 Garland, G.E.*
 Garland, P.R.
 Giblin, H.*
 Goldsmith, A.
 Grant, P.M.
 Green, Mrs S.M.
 Greenhead, S.*
 Hamilton, R.
 Harrop Dr D.O.
 Hunt, J.
 Iddison, T.H.*
 James, B.W.
 Kayes, Dr P.J.
 Kitchener Earl*
 Lees, B.*
 Lingard, Miss H.
 Lucas, Miss P.
 McIntyre, Dr A.E.
 Meades, G.
 Menuhin, Yehudi
 Perkins, P.R.
 Perriman, R.J.
 Rayson, H.
 Redston, D.
 Reed, L.E.
 Richardson, R.C.*
 Rodriguez, Mrs J.
 Scannell, K.
 Scorer, Professor R.S.*
 Sharp, Rear Admiral P.G. (Hon. Member)
 Shillito, D.
 Skea, Dr J.
 Smith, Mrs P.
 Turner, D.W.
 Turner, Dr W.C.*
 Valentin, Dr F.H.

Vine Mr & Mrs G.M.*
 Walder, A.N.
 Wermann, J.C.
 Willcox, Mrs M.C.T.R.
 Wilson, D.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas

LOCAL AUTHORITY MEMBERS

Cherwell District Council
 Fareham Borough Council
 Gosport Borough Council
 Luton Borough Council
 Mid Bedfordshire District Council
 Oxford, City of
 Portsmouth, City of
 Slough Borough Council
 Southampton, City of
 South Bedfordshire District Council
 South Oxfordshire District Council
 Wokingham District Council
 Wycombe District Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
 B.E.S. Ltd
 Calor Gas Ltd
 Cleerburn Ltd
 Highbury College of Technology

INDIVIDUAL MEMBERS

Bairds, J.M.
 Bartlam, J.N.
 Billington, N.J.
 Colehan, J.E.*
 Elsom, D.M.
 Fleming, B.
 Fuller, H.I.
 Giblin, H.*
 Miessler, E.*
 Miller, Dr Anne.
 Nevard, L.
 Phillips, H.
 Robson, A.
 Scotson, D.A.*
 Tagg, J.R.
 Verdin, A.
 Wythers, J.R.G.*

DIVISION ELEVEN

SOUTH WEST DIVISION

(Avon, Cornwall, Devon, Dorset,
 Gloucestershire, Somerset, Wiltshire.)

Chairman:

H. Dawson

Hon. Secretary:

H.R. Nowell,

Dept. of Environmental Services,

Abbey Chambers,

BATH BA1 1NT

Telephone : (0225) 61111 Ext. 459

The first of four meetings held during the year was at Bristol Polytechnic where thirty members viewed and discussed the analytical services undertaken by the Science Department. In his welcome and introduction Dr. Andrew Tubb explained that pollution analysis was his Department's main function for which it was better equipped than Universities, and able to offer a comprehensive service in co-operation with other Polytechnic Departments, eg Environmental Health. He described the practical application of consultancy work and illustrated with examples of combustion analysis, computer modelling and solvent analysis. Members then embarked on a tour of the Department to view the wide range of scientific equipment and methods employed. The meeting reconvened for a short discussion period with Dr. Tubb, followed which the Chairman expressed members' appreciation of what was generally accepted as a most interesting technical meeting and visit.

In July we visited the Bridgwater premises of BCL Cellophane. Mr. P. Lancaster, Works and Technical Manager, first described the production process with particular reference to hydrogen sulphide, carbon disulphide and the infamous "Bridgwater pong". Technically orientated guides then led the 32 members who attended on a conducted tour of the factory, including the methods and plant used for the containment and incineration of malodours. At the conclusion the Chairman thanked Mr Lancaster and his colleagues for what had been a long awaited and most worthwhile meeting.

Forest of Dean DC in the north east of the area was our host for the AGM, following which members visited the premises of Engelhard Ltd to examine plant used to minimise pollution emissions from precious metal recovery processes. It was a most fascinating insight into an extremely specialised industry. (Unfortunately there were no free samples!)

The final meeting of 1986 was a technical visit to the Coal Research Establishment near Cheltenham, courtesy of British Coal and the Solid Fuel Advisory Service. A variety of fuels and appliances were viewed and discussed but particular attention was focused on the recently developed domestic independent boiler with underfeed stoker and self cleaning mechanism, which could be installed with an automatic coal and ash handling system.

A one day seminar is at present being organised at Bristol Polytechnic on 15 April on "People and Agriculture - Pollution Problems and Solutions". The seminar will examine some of the major problems and propose solutions which will cut farming costs, resolve conflict and improve the quality of rural life.

Finally, I would express my gratitude to the Officers of the Division, particularly the Chairman, who have been of great assistance to me over the past year.

H.R. NOWELL
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Avon County Council
British Coal
British Gas
Central Electricity Generating Board
(South West Region)
Industrial Air Pollution Inspectorate

LOCAL AUTHORITY MEMBERS

Bath, City of
Bristol, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Teignbridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Torbay Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Bristol Industrial and Research
Association
Cornwall Noise Advisory Committee
Cross Manufacturing Ltd
Enviro Technology

INDIVIDUAL MEMBERS

Baxter, T.*
Briggs, E.
Dickerson, D.S.
Edwick, B.H.
Garrigar, O.L.
Hannabuss, G.*
Merrick, R.J.
Parker, Dr R.A.
Price, B.
Redston, R.V.*
Shapter, R.F.* (Hon.Member)
Travers, I.D.
Upton, B.C.*
Vick, J.L.

DIVISION TWELVE

SOUTH AND MID WALES DIVISION
(Wales, except for Clwyd and Gwynedd
which are in Division Four.)

Chairman:

J. Evans

Hon. Secretary:

T. Jones,
28 Maes-y-celyn,
Griffithstown,
PONTYPOOL,
Gwent.

Telephone (06333) 67791

The Annual General Meeting 1985, was held at Rhymney Valley District Council Offices and attended by 42 persons with apologies from 15 people. Cllr. Forehead, Chairman of Rhymney Valley, welcomed delegates and provided lunch at the conclusion of the meeting. Dr. L. Hales (HMI-API) presented his Annual Report.

On 5 December 1985, a one-day meeting was held at Swansea University. Mr. Colin Howells (Senior Engineer - SWEB) spoke in the morning on Nuclear Power and in the afternoon Mr. David Stallard (Engineer - CEGB) talked about Acid Rain. Although there were only two speakers, I believe all persons who attended found the subjects both interesting and informative. Certainly, both speakers presented their topics in an excellent manner.

The Divisional Council met only once during the year and again at Rhymney Valley District Council Offices. The matters under discussion included the AGM 1986; the Phurnacite Plant,

Abercwmboi; the Hazardous Waste Inspectorate's Report; Department of the Environment report on access to information and reports on the National Committees.

The Staff at the Headquarters must again be thanked for all their assistance over the past year. On all occasions when I have had to contact them, they have always been most helpful and courteous. I would also commend to all, the assistance that can be given to those Authorities seeking advice on clean air matters.

T. JONES
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Industrial Air Pollution Inspectorate
Mid Glamorgan County Council

LOCAL AUTHORITY MEMBERS

Bleanau Gwent Borough council
Cardiff, City of
Cynon Valley Borough Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Neath Borough Council
Newport Borough Council
Port Talbot Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely Borough Council
Torfaen Borough Council
Vale of Glamorgan Borough Council
West Glamorgan County Council

CORPORATE MEMBERS

British Steel Corporation
(Welsh Division)
South Glamorgan Institute of Higher
Education
Swansea Port Health Authority

INDIVIDUAL MEMBERS

Dearden, J.*
Evans, J.
Parry, J.R.
Thayer, J.M.

SMOKE CONTROL AREAS

Programmes and Progress

The following lists contain the names of the local authority areas as of April 1st 1974. Due to the financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1986 and some authorities' figures will have changed since that date.

The fourth column for each local authority shows the percentage of the total Council area covered by smoke control. It should be remembered, however, that some predominantly rural authorities will show a low figure in this column even though the proportion of premises covered may be high.

The British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland,	Cumbria,	Durham,
	Northumberland,	Tyne & Wear.	
NORTH WEST	Cheshire,	Greater Manchester,	Lancashire,
	Merseyside.		
YORKSHIRE & HUMBERSIDE	Humberside,	North Yorkshire,	South Yorkshire,
	West Yorkshire.		
WEST MIDLANDS	Hereford and	Worcester,	Salop,
	Staffordshire,	Warwickshire,	West Midlands.
EAST MIDLANDS	Derbyshire,	Leicestershire,	Lincolnshire,
	Northamptonshire,	Nottinghamshire,	Cambridgeshire,
	Norfolk,	Suffolk.	
GREATER LONDON			
SOUTH EAST	Bedfordshire,	Berkshire,	Buckinghamshire,
	East Sussex,	Essex,	Hampshire,
	Hertfordshire,	Kent,	Oxfordshire,
	Surrey,	West Sussex.	
SOUTH WEST	Avon,	Cornwall,	Devon,
	Dorset,	Gloucestershire,	Somerset,
	Wiltshire.		
WALES	Clwyd,	Dyfed,	Gwent,
	Gwynedd,	Mid Glamorgan,	Powys,
	South Glamorgan,	West Glamorgan.	
SCOTLAND			
NORTHERN IRELAND			

KEY c. = approx; comp. = completed; n/k = not yet known; susp. = (programme) suspended; xld = cancelled; - = none. Figures and names of authorities underlined indicate completed programmes.

NOTE: The total number of premises in some completed programmes has been revised by the local authorities concerned to take account of new development in the area.

Footnotes

1 99% of dwellings are covered by smoke control in Hartlepool BC area.

2 Lichfield DC's City Programme was completed in 1984 and the figures for acreage in operation and premises in operation relate to this programme. The Burntwood Programme is targetted to end in 1991. The final acreage figure includes both programmes.

3 Municipal Borough of Rugby - to which target date and final acreage refer - became Rugby BC under reorganisation. The Borough Council has been extended to include Rugby Rural DC, but the programme only covers green field sites in this area.

4 Blaby DC to consider cessation of programme two years before target completion date; current results of monitoring in area indicate that introduction of new Smoke Control Areas will not bring about improvement.

5 Southampton City Council achieved interim completion in 1982: the Council suspended the programme since levels of SO₂ and particulates were well within EEC limits. Monitoring will continue and the programme may be reintroduced if necessary.

6 New area of Ettrick & Lauderdale includes landward area - former Burgh of Galashiels is 100% smoke controlled.

7 Stirling DC itself does not have a smoke control programme. The figures given are for Bannockburn which was made the subject of control orders before local government reorganisation.

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
NORTHERN				
1993	8,816	1,413	0.4%	4,348
1992	17,649	2,850	16%	11,890
Susp.	6,092	898	0.3%	c.4,000
1986	2,534	2,174	1%	5,307
1987	6,469	5,769	12%	27,915
-	n/k	1,408	4%	5,887
1991	35,372	18,848	53%	67,747
1982	9,073	9,073	39%	34,506 ¹
1991	c.15,000	11,325	19%	39,567
1979	12,226	12,226	92%	54,110
1978	34,500	34,500	100%	128,980
1989	20,801	20,570	99%	72,592
n/k	n/k	c.1,210	c.2%	c.5,909
n/k	16,285	14,311	88%	65,466
1987/8	c.16,500	15,632	32%	54,086
No	return	received	from	LA
NORTH WESTERN				
-	13,043	11,721	35%	44,652
1993	34,527	25,577	74%	89,511
1980	23,700	23,700	82%	42,050
Susp.	24,505	18,020	74%	51,763
n/k	c.16,000	361	0.7%	2,055
No	return	received	from	LA
1982	9,628	9,628	48%	17,585
1980	17,121	17,121	94%	41,056
1980	16,611	16,611	92%	37,976
Susp.	n/k	6,359	26%	51,295
n/k	n/k	3,402	2%	7,926
1990	27,819	24,178	87%	192,236
NORTHERN				
Allerdale DC (Cumbria)				
Blyth Valley BC (Northumberland)				
Carlisle City (Cumbria)				
Castle Morpeth(B) (Northumberland)				
Darlington(B) (Co. Durham)				
Easington DC (Co. Durham)				
Gateshead(MB) (Tyne & Wear)				
Hartlepool(B) (Cleveland)				
Langbaugh(B) (Cleveland)				
Middlesbrough(B) (Cleveland)				
Newcastle upon Tyne(M) (Tyne & Wear)				
North Tyneside(MB) (Tyne & Wear)				
Sedgefield DC (Co.Durham)				
South Tyneside(MB) (Tyne & Wear)				
Stockton-on-Tees(B) (Cleveland)				
Sunderland(MB) (Tyne & Wear)				
NORTH WESTERN				
Blackburn DC (Lancs)				
Bolton(MB) (Gtr.Manchester)				
Burnley(B) (Lancs)				
Bury(MB) (Gtr.Manchester)				
Chorley(B) (Lancs)				
Crewe & Nantwich(B) (Cheshire)				
Ellesmere Port & Neston(B) Cheshire				
Halton BC(Cheshire)				
Hyndburn(B) (Lancs)				
Knowsley(M) (Merseyside)				
Lancaster City (Lancs)				
Liverpool(M) (Merseyside)				

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
-	-	304	0.2%	2,653
1985	28,723	28,723	100%	213,468
1987	21,361	21,023	60%	101,788
1983	15,000	15,000	36%	36,738
1985	8,347	8,347	24%	48,675
-	n/k	432	0.3%	359
1990	33,358	25,438	64%	70,932
1993	34,170	10,761	31%	13,683
1987/8	32,979	27,272	83%	60,695
1978	23,942	23,942	100%	103,200
n/k	14,742	2,587	7%	13,463
2000	27,454	5,597	20%	16,118
n/k	31,147	24,707	79%	102,645
1984	25,500	25,500	100%	100,711
1980	26,219	26,219	100%	95,020
-	-	6,928	7%	10,422
1983	41,350	41,350	95%	67,853
x1d	n/k	7,170	9%	14,239
n/k	52,916	29,904	61%	73,412
n/k	38,420	22,721	58%	96,241
YORKSHIRE & HUMBERSIDE				
1993	c. 30,000	16,951	21%	35,129
-	91,444	50,838	56%	180,106
1980	40,285	40,285	45%	77,213
Susp.	19,529	8,498	3%	8,205
n/k	66,944	834	1.2%	3,978
1993	142,600	26,160	18%	58,146
Susp.	139,346	15,264	11%	5,085
No	return	received	from	LA
n/k	n/k	8,715	50%	59,372
Susp.	102,403	37,033	36%	115,627
Barnsley(MB) (S.Yorks)				
Bradford City(M) (W.Yorks)				
Calderdale(MB) (W.Yorks)				
Craven DC (N.Yorks)				
Derwentside DC (Co.Durham)				
Doncaster (MB) (S.Yorks)				
Glanford(B) (Humberside)				
Harrogate(BC) (N.Yorks)				
Kingston-upon-Hull City (Hu.side)				
Kirklees(MB) (W.Yorks)				
Macclesfield(B) (Cheshire)				
Manchester City(M) (Gtr.Manchester)				
Oldham(M) (Gtr.Manchester)				
Pendle DC (Lancs)				
Preston(B) (Lancs)				
Ribble Valley(B) (Lancs)				
Rochdale(M) (Gtr.Manchester)				
Rossendale(B) (Lancs)				
St. Helens(MB) (Merseyside)				
Salford City(M) (Gtr.Manchester)				
Sefton(M) (Merseyside)				
South Ribble(B) (Lancs)				
Stockport(MB) (Gtr.Manchester)				
Tameside(MB) (Gtr.Manchester)				
Trafford(MB) (Gtr.Manchester)				
Vale Royal DC (Cheshire)				
Warrington(B) (Cheshire)				
West Lancashire DC(Lancs)				
Wigan(MB) (Gtr.Manchester)				
Wirral(M) (Merseyside)				

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
Leeds City(M) (W.Yorks)	n/k	75,605	54%	223,500
Rotherham(M) (S.Yorks)	69,875	27,857	40%	56,208
Ryedale(DC) (N.Yorks)	261	261	0.07%	3,130
Selby(DC) (N.Yorks)	10,000	2,161	1%	4,425
Scunthorpe(B) (Humberside)	8,337	8,337	100%	24,170
Sheffield City (M) (S.Yorks)	58,048	58,048	64%	222,338
Wakefield City (M) (W.Yorks)	return	received	from	LA
York City (N.Yorks)	7,400	5,173	70%	25,110

WEST MIDLANDS

Birmingham City (W.Midlands)	1986	65,309	63,634	97%	338,027
Coventry City(M) (W.Midlands)	1985	23,855	23,855	100%	138,364
Dudley (MB) (W.Midlands)	1988	24,125	22,981	95%	127,000
East Staffordshire DC (Staffs)	1992	1,891	1,489	2%	14,167
Lichfield DC (Staffs)2	1991	2,534	1,969	2%	10,554
Newcastle under Lyme (Staffs)	n/k	n/k	6,051	12%	26,900
North Shropshire DC (Salop)	Susp.	c.1,310	512	0.3%	1,620
North Warwickshire(B) (Warwicks)	1990	n/k	8,517	12%	11,584
Nuneaton & Bedworth(B)(Warwicks)	1994	19,585	9,237	47%	22,461
Rugby(B)(Warwicks)3	1979	7,010	8,112	9%	22,535
Sandwell(MB) (W.Midlands)	Susp.	21,150	6,536	31%	34,446
Shrewsbury & Atcham(B) (Salop)	No	return	received	from	LA
Solihull(MB) (W.Midlands)	1997	44,495	7,923	18%	c.43,000
Staffordshire Moorlands DC (Staffs)	1993	4,000	506	0.4%	1,930
South Staffordshire DC(Staffs)	Susp.	n/k	5,206	5%	3,066
Stoke on Trent City (Staffs)	1989	22,949	14,185	62%	61,993
Tamworth(B) (Staffs)	Susp.	7,648	4,830	63%	21,852
Walsall (MB) (W.Midlands)	1990	26,266	19,166	73%	72,174
Warwick DC (Warwicks)	1983/4	6,757	6,757	10%	36,002
Wolverhampton(MB) (W.Midlands)	1992	17,031	11,496	67.5%	67,158
Worcester City	1992	7,868	2,792	35%	9,916

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
Susp.	19,311	9,159	13%	19,966
-	-	639	1.3%	6,526
Wrekin DC (Salop)				
Wyre Forest DC (Hereford & Worcester)				
EAST MIDLANDS				
1990	19,300	3,971	6%	8,519
1993	27,206	12,944	48%	23,003
1993	25,000	7,884	5%	17,588
1988	10,598	9,007	28%	20,001
2005	39,877	2,354	6%	4,745
1986	14,868	13,793	69%	36,625
1985	16,264	16,264	100%	39,600
Susp.	n/k	2,540	13%	10,957
1985	19,282	19,282	100%	90,233
2002	7,577	3,252	12%	13,117
1993	7,625	5,014	18%	27,080
1986	4,114	4,114	3%	14,148
1975	18,144	18,144	100%	91,918
1984	8,828	8,828	100%	39,567
1993	19,007	10,442	55%	32,575
1993	7,106	2,847	2%	5,404
Susp.	19,928	8,175	41%	c.18,898
No	return	received	from	LA
Susp.	2,448	145	2%	903
1983	3,046	3,046	3%	10,910
n/k	n/k	1,716	2%	4,253
n/k	n/k	3,302	1%	12,934
Amber Valley DC(Derbys)				
Ashfield DC (Notts)				
Bassetlaw DC (Notts)				
Blaby DC (Leics) ⁴				
Bolsover DC (Derbys)				
Broxtow DC (Notts)				
Chesterfield(B) (Derbys)				
Corby DC (N'hants)				
Derby(B) (Derbys)				
Erewash(B) (Derbys)				
Gedling(B) (Notts)				
High Peak DC (Derbys)				
Leicester City (Leics)				
Lincoln City (Lincs)				
Mansfield DC (Notts)				
Newark & Sherwood DC (Notts)				
Northampton(B) (N'hants)				
Nottingham City (Notts)				
Oadby & Wigston(B) (Leics)				
Rushcliffe(B) (Notts)				
South Derbyshire DC(Derbys)				
South Kesteven DC(Lincs)				

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
EAST ANGLIA				
Susp.	10,059	1,446	14%	2,703
-	841	841	0.2%	4,003
Susp.	9,655	1,535	16%	3,232
-	82,424	5,702	7%	21,646
LONDON BOROUGHs				
<u>Corporation of London</u>				
<u>Barking</u>	<u>678</u>	<u>678</u>	<u>100%</u>	<u>n/k</u>
<u>Barnet</u>	<u>8,886</u>	<u>8,886</u>	<u>100%</u>	<u>70,118</u>
<u>Bexley</u>	<u>return</u>	<u>received</u>	<u>from</u>	<u>LA</u>
<u>Brent</u>	<u>15,847</u>	<u>15,847</u>	<u>100%</u>	<u>103,932</u>
<u>Bromley</u>	<u>10,934</u>	<u>10,934</u>	<u>100%</u>	<u>108,418</u>
<u>Camden</u>	<u>29,600</u>	<u>29,600</u>	<u>79%</u>	<u>c.137,000</u>
<u>Croydon</u>	<u>3,744</u>	<u>3,744</u>	<u>70%</u>	<u>88,706</u>
<u>Ealing</u>	<u>21,395</u>	<u>13,164</u>	<u>62%</u>	<u>c.106,000</u>
<u>Enfield</u>	<u>13,707</u>	<u>13,707</u>	<u>100%</u>	<u>126,370</u>
<u>Greenwich</u>	<u>20,061</u>	<u>20,061</u>	<u>100%</u>	<u>89,187</u>
<u>Hackney</u>	<u>11,724</u>	<u>11,724</u>	<u>100%</u>	<u>c.75,673</u>
<u>Hammersmith & Fulham</u>	<u>4,814</u>	<u>4,814</u>	<u>100%</u>	<u>n/k</u>
<u>Harinqey</u>	<u>3,988</u>	<u>3,988</u>	<u>100%</u>	<u>73,000</u>
<u>Harrow</u>	<u>7,486</u>	<u>7,486</u>	<u>100%</u>	<u>97,796</u>
<u>Havering</u>	<u>12,553</u>	<u>12,553</u>	<u>100%</u>	<u>75,561</u>
<u>Hillingdon</u>	<u>29,650</u>	<u>29,650</u>	<u>100%</u>	<u>100,700</u>
<u>Hounslow</u>	<u>27,260</u>	<u>27,260</u>	<u>100%</u>	<u>103,823</u>
<u>Islington</u>	<u>14,460</u>	<u>14,460</u>	<u>100%</u>	<u>94,967</u>
<u>Kensington & Chelsea (Royal)</u>	<u>3,679</u>	<u>3,679</u>	<u>100%</u>	<u>c.82,000</u>
<u>Kingston upon Thames (Royal)</u>	<u>2,950</u>	<u>2,950</u>	<u>100%</u>	<u>25,288</u>
<u>Lambeth</u>	<u>9,135</u>	<u>9,135</u>	<u>100%</u>	<u>55,738</u>
<u>Lewisham</u>	<u>6,738</u>	<u>6,738</u>	<u>100%</u>	<u>c.106,400</u>
<u>Merton</u>	<u>return</u>	<u>received</u>	<u>from</u>	<u>LA</u>
	<u>9,380</u>	<u>9,380</u>	<u>100%</u>	<u>65,800</u>

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
<u>Newham</u>	<u>1981/2</u>	<u>8,985</u>	<u>100%</u>	<u>87,211</u>
<u>Redbridge</u>	<u>1971</u>	<u>13,983</u>	<u>100%</u>	<u>c.100,000</u>
<u>Richmond upon Thames</u>	<u>1972</u>	<u>12,866</u>	<u>92%</u>	<u>88,914</u>
<u>Southwark</u>	<u>1988</u>	<u>7,116</u>	<u>83%</u>	<u>106,000</u>
<u>Sutton</u>	<u>1977</u>	<u>10,732</u>	<u>100%</u>	<u>83,211</u>
<u>Tower Hamlets</u>	<u>1968</u>	<u>4,875</u>	<u>100%</u>	<u>n/k</u>
<u>Waltham Forest</u>	<u>1977</u>	<u>9,804</u>	<u>100%</u>	<u>86,500</u>
<u>Wandsworth</u>	<u>1979</u>	<u>8,860</u>	<u>100%</u>	<u>107,880</u>
<u>Westminster City</u>	<u>1970</u>	<u>5,334</u>	<u>100%</u>	<u>140,222</u>

SOUTH EAST

Aylesbury Vale DC (Bucks)	No	return	received	from	LA
Basildon DC (Essex)	Susp.	n/k	4,528	17%	21,682
Bracknell DC (Berks)	Susp.	-	3,811	14%	27,811
Brentwood DC (Essex)	-	-	227	0.6%	2,856
Brighton(B) (E.Sussex)	Susp.	14,613	1,472	10%	24,392
Broxbourne(B) (Herts)	1989	12,904	8,278	64%	21,417
Canterbury City (Kent)	No	return	received	from	LA
Crawley(B) (W.Sussex)	No	return	received	from	LA
Dacorum DC (Herts)	-	3,731	3,731	7%	15,000
Dartford BC (Kent)	Comp.	17,267	17,267	100%	31,035
Epping Forest DC (Essex)	No	return	received	from	LA
Gillingham(B) (Kent)	1979	11,023	11,023	100%	42,252
Gravesham(B) (Kent)	1985	4,532	4,532	18%	25,278
Guildford(B) (Surrey)	Susp.	n/k	2,885	4%	10,517
Harlow DC (Essex)	1965	6,320	6,320	100%	28,000
Hertsmere DC (Herts)	-	21,031	2,121	9%	7,913
Luton(B) (Beds)	1979	10,657	10,657	100%	73,290
Milton Keynes(B) (Bucks)	Susp.	7,862	7,862	10%	24,507
North Bedfordshire(B) (Beds)	1987	6,290	c.5,010	4%	c.23,000
North Hertfordshire DC (Herts)	xld	-	1,341	1%	5,000
Oxford City (Oxfordshire)	1989	8,785	4,297	49%	28,652
Portsmouth City (Hants)	Susp.	9,249	1,554	17%	19,039

	Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
Reading(B) (Berks)	Susp.	9,106	5,959	60%	23,340
Rochester upon Medway (Kent)	n/k	n/k	6,383	16%	19,974
Sevenoaks DC (Kent)	xld	-	1,341	1%	c.3,684
Slough(B) (Berks)	1988/9	6,813	5,036	74%	24,520
Southampton City (Hants) 5	1982	4,254	4,254	35%	30,892
Spelthorne(B) (Surrey)	No	return	received	from	LA
Stevenage(B) (Herts)	1982	6,257	6,257	100%	39,004
Thurrock(B) (Essex)	Susp.	-	10,130	25%	22,761
Watford(B) (Herts)	1979	5,275	5,275	100%	28,220
Windsor&Maidenhead Royal B(Berks)	Comp.	831	831	2%	2,655
Wycombe DC (Bucks)	Comp.	3,818	3,818	5%	21,500
SOUTH WEST					
Bath City (Avon)	1991	7,091	638	9%	6,558
Bristol City (Avon)	1988	26,516	23,127	85%	135,702
Cheltenham DC (Gloucs)	1996	8,538	954	11%	3,155
Exeter City (Devon)	-	11,037	6,551	60%	17,746
Gloucester City (Gloucs)	No	return	received	from	LA
WALES					
Alyn & Deeside (W) (Clwyd)	-	-	50	0.1%	448
Delyn (B) (Clwyd)	1983/4	486	486	0.7%	816
Newport (B) (W) (Gwent)	n/k	n/k	67	0.1%	1,178
Wrexham Maelor(B) (W) (Clwyd)	-	-	2,166	2%	10,390

Target Date	Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
1976	740	740	0.6%	7,096
xld	-	105	0.1%	823
-	-	5	-	96
Susp.	-	325	0.9%	890
1989	26,218	6,340	21%	47,072
-	6,338	5,428	26%	18,150
No	return	received	from	LA
n/k	n/k	482	c.1%	1,015
n/k	n/k	5	0.01%	192
No	return	received	from	LA
No	return	received	from	LA
-	-	176	0.9%	765
1974	54	54	-	750

NORTHERN IRELAND

Antrim (Co. Antrim)
Ards (B) (Co. Down)
Armagh DC (Co. Armagh)
Ballymena(B) (Co.Antrim)
Belfast City (Co.Antrim & Co.Down)
Castlereagh DC (Co. Down)
Craigavon(B) (Co. Armagh)
Down (Co. Down)
Larne(B) (Co. Antrim)
Londonderry City (Londonderry)
Newtownabbey (Co.Antrim)
North Down (B) (Co. Down)
Strabane (Co. Tyrone)

SCOTLAND

Bearsden & Milngavie (Strathclyde)	8,800	98%	15,550
Clackmannan (Central)	642	1.6%	3,881
Clydebank (Strathclyde)	9,239	100%	20,435
Cunninghame DC (Irvine)	816	0.3%	2,036
Dumbarton (Strathclyde)	4,301	4%	11,126
Dundee City (Tayside)	12,654	22%	69,778
Dunfermline (Fife)	931	1%	5,309
Edinburgh City (Lothian)	26,699	41%	95,306
Ettrick & Lauderdale 6	1,766	0.5%	6,630
Falkirk (Central)	15,265	21%	34,479
Glasgow City (Strathclyde)	received	from	LA
Hamilton (Strathclyde)	4,167	13%	15,737
Inverclyde (Strathclyde)	1,789	5%	8,869
Kilmarnock & Loudoun (Strathclyde)	101	0.1%	577
Kirkcaldy (Fife)	5,839	10%	7,083

Target Date		Final Acreage	Acreage (In Op)	% of total covered	Premises (In Op)
<u>Kyle & Carrick</u>		<u>98</u>	<u>98</u>	<u>0.03%</u>	<u>275</u>
Monklands (Strathclyde)		return	received	from	LA
Motherwell (Strathclyde)		-	878	2%	6,518
Nithsdale (Dumfries & Galloway)		No	received	from	LA
Renfrew (Strathclyde)		No	received	from	LA
Roxburgh (Borders)		-	425	0.1%	1,900 1
Stirling (Central) 7		-	200	0.2%	c.2,000
Strathkelvin (Strathclyde)		n/k	5,156	13%	c.10,000
West Lothian (Lothian)		-	6,521	6%	14,742

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Entries in the Directory are classified under the following headings:

Arts, Architecture & Town Planning	page 86
Clean Air	page 87
Fuel and Energy	page 89
General	page 90
General Environmental & Conservation Bodies	page 91
Government and Local Bodies	page 93
Health	page 94
Industry, Instruments & Standards	page 95
Iron & Steel	page 95
Meteorology	page 96
Noise	page 96
Transport	page 97

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INSTITUTE OF ACOUSTICS

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**THE WOLFSON UNIT FOR SOUND
& VIBRATION CONTROL,**

Institute of Sound
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**LOUGHBOROUGH UNIVERSITY OF
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Centre for Extension Studies,
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ext. 213 and 249
(Short courses on noise)

**NATIONAL SOCIETY FOR CLEAN AIR,
NOISE COMMITTEE,**

136 North Street,
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NOISE ABATEMENT SOCIETY

PO Box No. 8,
Bromley,
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THE NOISE COUNCIL,

25 Chambers Street,
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SOUND RESEARCH LABORATORIES

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OVERSEAS

**INTERNATIONAL ASSOCIATION
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Hirschenplatz 7,
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Note: Other bodies concerned with
noise, which are listed elsewhere
in this Directory, are:
Building Research Establishment;
Department of the Environment,
Air and Noise Division;
Institution of Environmental
Health Officers;
Transport & Road Research
Laboratory;
Warren Spring Laboratory.

TRANSPORT

**BRITISH INTERNAL COMBUSTION
ENGINE RESEARCH INSTITUTE LTD**
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ELECTRIC VEHICLE ASSOCIATION
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**INSTITUTE OF ROAD TRANSPORT
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**MOTOR INDUSTRY RESEARCH
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**ROAD HAULAGE ASSOCIATION LTD,
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The National Trust for the
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Transport Heritage,
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TRANSPORT 2000
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DIRECTORY OF FOREIGN ORGANISATIONS

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Clean Air Society of Australia
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Clean Air Branch, State
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Commonwealth Scientific and
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Department of Conservation
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Department of the Environment,
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SEMA - Ministerio do
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Government Dept. for the
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**Commission of the European
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European Environmental Bureau,
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Association Technique de l'Industrie du Gaz en France,
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Centre d'Information pour le Developpement de Conditionnement d'Air, de la Ventilation, du Filtrage de l'Air et du Depoussierage, 38 rue Copernic, 75016 Paris.

Centre Interprofessional Technique d'Etudes de la Pollution Atmospherique (CITEPA),
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Charbonnages de France, 9 ave. Percier, 75008 Paris.

Centre d'Etudes et de Recherches de Charbonnages de France (CERCHAR), Boite Postale No. 27 60103 CREIL.

Comite de Coordination pour la Prevention de la Pollution Atmospherique (which comprises the following), 58 rue du Rocher, 75008 Paris. President: M. le Professeur Valade.

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3. Comite National d'Action pour l'Assainissement de l'Atmosphere (CAPA),
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Centre National de la Recherche Scientifique (CNRS), 15 quai Anatole France, 75007 Paris.

Delegation Generale a la Recherche Scientifique et Technique, 103 rue de l'Universite, 75006 Paris.

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Ministere de l'Environnement,
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Agence pour la Qualite de l'Air
 Tour GAN, CEDEX 13,
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 Tel: (33) 47 76 44 21.

Federation Francaise des Societes de Protection de la Nature,
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Institut für Angewandte Botanik
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Institut für Pflanzenökologie
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Institut für Pharmakologie,
Toxikologie u, Pharmazie d.
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Institut für Technische Physik
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Landesanstalt für Immissions-
schutz des Landes Nordrhein-West-
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Landesanstalt für Umweltschutz
Baden-Württemberg, Institut für
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Medizinische Hochschule Hannover
Abt. für experimentelle
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Ministerium f. Arbeit,
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Postfach 1134.

Rhein, -Westf. Technischer Über-
wachungs-Verein e.V.,
Steubenmstr. 53,
4300 Essen.

Silikose-Forschungsinstitut der
Bergbau-AG, Medizinische Abteil-
UNG, 4630 Bochum, Hundscheidstr.
12.

Berufsgenossenschaftliches
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Steinkohlenbergbauverein Haupt-
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Technischer Überwachungs-Verein
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Verein Deutscher
Eisenhüttenleute, Breite Str. 27,
4000 Düsseldorf.

Verein Deutscher Giessereifach-
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Düsseldorf.

Verein Deutscher Ingenieure
(VDI) – Kommission Reinhaltung
der Luft, Postfach 1139,
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Überwachungs-Vereine e.V.,
43 Essen, Kurfürstenstr. 56.

VGB - Technische Vereinigung der
Grosskraftwerksbetreiber e.V. 43
Essen, Klinkestr. 29/31.

GREECE

Committee for the Protection of
the Environment,
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Hellenic Association on
Environmental Pollution (ERYEA),
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Hellenic Society for Protection
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9 Fragini Street,
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Indian Standards Institution,
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Internal Combustion Engines
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National Institute of
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Comitato di Studio per
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ENEL – Direzione Construzioni
Termiche e Nucleari, Via G.B.
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ESSO Standard Italiana –
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Society for Clean Air in
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(CLAN is the Secretariat for the
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Stichting Concawe (International
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Study and Information Centre TNO
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Atmospheric Sciences Division,
National Physical Research
Laboratory of the Council for
Scientific and Industrial
Research, P.O. Box 395,
Pretoria, 0001.

Chemical Engineering Research
Group of the Council for
Scientific and Industrial
Research, P.O. Box 395, Pretoria
0001.

D. Giles and Co. (Scientific)
(Pty) Ltd., P.O. Box 3891,
Johannesburg, 2000.

National Association for Clean
Air, P.O. Box 5777,
Johannesburg 2000.
Director: Gordon H. Grange.
Tel: Johannesburg (011) 728 2418

SWEDEN

National Swedish Environment
Protection Board, Box 1302,
S-171 25 Solna.

Swedish Water and Air Pollution
Research Laboratory, Box 5207,
S-40224 Gothenburg 5.

International Meteorological
Institute in Stockholm,
Arrheniuslaboratoriet,
S-10691 Stockholm.

Swedish Meteorological and
Hydrological Institute,
Box 923,
S-60119 Norrköping.
AB Bahco,
S-19981 Enköping.

AB Svenska Flaktfabriken,
Box 81001,
S-10481 Stockholm.

Swedish Society for the
Conservation of Nature,
PO Box 6400,
S-113 82 Stockholm.

SWITZERLAND

Arcadie,
Association contre la Pollution,
BP 103,
CH-1211 Geneva 20.

Cercl 'Air
Schweizerische Gesellschaft der

Lufthygieniker, Postfach 317
CH-4502 Solothurn,
Eidenössische Kommission für
Lufthygiene, c/o Bundesamt für
Umweltschutz, CH-3003 Berne.

Schweiz. Gesellschaft für
Umweltschutz (SGU),
Merkurstrasse 45,
Postfach,
8032 Zurich.

Schweiz. Vereinigung für
Gesundheitstechnik (SVG),
Postfach 305,
CH-8035 Zurich.
Contact: W. Hess.

Schweiz. Vereinigung für
Gewässerschutz und
Lufthygiene (VGL),
Postfach 3266,
CH - 8031 Zurich.

Verein zur Förderung der
Wasser und Lufthygiene (VFWL),
Spanweidstrasse 3,
8006 Zurich.

World Wildlife Fund,
WWF Schweiz,
Postfach,
CH - 8037 Zurich.

THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

Environment and Human Settle-
ments Division, Palais des
Nations, 1211 Geneva 10,
Switzerland.
Director: C. Lopez-Polo.

UNITED NATIONS ENVIRONMENT PROGRAMME

17 rue Margueritte,
75017 Paris,
France.
Tel: 47 66 16 40
Telex: 650273

U.S.A.

APCA - The Association
Dedicated to Air Pollution
Control and Hazardous Waste
Management,
P.O. Box 2861,
Pittsburgh, P.A. 15230.
Executive Vice President:
Steve Hart.
Tel: 412 232 344

Bituminous Coal Research Inc.,
350 Hochberg Road, Monroeville
PA 15146.

Friends of the Earth (USA),
530 7th Street S.E.,
Washington DC 20003.
Contact: Geoffrey Webb.

U.S. Environmental Protection
Agency, Waterside Mall, 401 M
Street, S.W., Washington, D.C.
20450.

Also:
Research Triangle Park,
North Carolina 27711.

Other U.S. Governmental Air
Pollution Agencies and individual
State Agencies are listed in an
annual Directory published by
the Air Pollution Control
Association in co-operation with
the U.S. Environmental Protection
Agency.

USSR

All Russian Society for
Conservation of Nature,
Proezd Kuibyshev 3,
Moscow K-12.

YUGOSLAVIA

Yugoslav Union of Air
Pollution Prevention
Associations P.O. Box 79,
71001 Sarajevo.
Secretary: Dr. A. Knezevic.

WORLD HEALTH ORGANISATION DIVISION OF ENVIRONMENTAL HEALTH

Avenue Appia, 1211 Geneva 27,
Switzerland.
Dr. H.W. de Koning.

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on various pollution and environmental topics. Selected titles of products are given but for all other details enquirers should apply directly to the issuing organisation concerned.

Two or three weeks' notice should be given in advance of the date a film or video is required. Please note that 'sound' films should never be run on a silent projector.

FILMS & VIDEOS ON ENVIRONMENTAL SUBJECTS

ACID RAIN INFORMATION CENTRE

Dept. of Environmental and
Geographical Studies
Manchester Polytechnic
John Dalton Extension
Chester Street
Manchester M1 5GD
Tel: 061-228 6171
(Polytechnic Switchboard)

ACID RAIN - MANCHESTER'S DESTRUCTIVE LEGACY

(Traces the history of
acidification in N.W. England
and relates it to the international
situation)

BRITISH MEDICAL ASSOCIATION

BMA/BLAT Film Library
BMA House
Tavistock Square
London WC1H 9JP
Tel: 01-388 7976

DO YOU MIND IF I SMOKE?

(The dangers of 'passive
smoking'.)

POLLUTION

(6 short 'spots' on pollution
problems and smoking)

BRITISH PETROLEUM

The BP Film Library
15 Beaconsfield Road
London NW10 2LE
Tel: 01-451 1129

A LANDSCAPE ON LOAN

(How oil drilling takes place
in Poole Harbour without
damaging the environment)

COAL - THE BRIDGE

(Modern coal industry and its
important role in meeting
future energy demands)

ENERGY WITHIN REASON

(Conserving energy for the 21st
Century)

GAS - NATURALLY

(Blend of cartoon, historic and
modern film traces the growing
role of gas)

THE SHADOW OF PROGRESS

(The environmental problems of a
technological age and possible
remedies)

THE TIDE OF TRAFFIC

(Benefits and problems of the
ever increasing use of motor
traffic)

THIS EARTH — THE INHERITANCE
(The use made of this planet's resources today and the needs of tomorrow)

CONCORD FILMS COUNCIL LTD
201 Felixstowe Road
Ipswich
Suffolk IP3 9BJ
Tel: (0473) 76012

A QUESTION OF KEEPING WARM
(District heating in Denmark)

ACID RAIN: REQUIEM OR RECOVERY
(The consequences of acid rain)

ACID RAIN — WHO CARES?
(How British pollution affects Scandinavia)

CRISIS IN THE MALAYSIAN ENVIRONMENT
(Problems of the Third World)

DOWN THE DRAIN
(Ecological consequences of draining Broadland's marshes)

DUST TO DUST
(Documentary on dangers of asbestos — intended for local authorities, industry, etc)

ECO — MUCK & GRASS
(Organic farming)

ECO — UNNATURAL SOLUTIONS
(Dangerous pesticides and safe alternatives)

PORT MEADOW
(The oldest unploughed stretch of common land in England)

SPLASH
(Cartoon on water pollution featuring The Droplets)

THE HAUNT OF MAN
(How man plunders earth's resources)

THE LAST STRAW
(The problems of straw burning and alternative methods of disposal)

TO BUILD A POLLUTION-FREE CAR
(Innovation in emission control)

ELECTRICITY COUNCIL FILM LIBRARY
30 Millbank
London SW1P 4RD
Tel: 01-834 2333

ELECTRIC REVOLUTION
(Features the new electric commercial vehicle)

IT'S ELECTRIC
(Electricity supply industry, heat pumps and alternative energy sources)

GUILD SOUND & VISION LTD
6 Royce Road
Peterborough PE1 5YB
Tel (0733) 315315

ALTERNATIVES
(Explores alternative energy sources)

AND ON THE EIGHTH DAY
(Illustrates how man is systematically destroying his environment)

THE CORROSION CHALLENGE
(Problems and solutions of corrosion)

LOOKING AT THE RIVER
(Depicts the many and varied demands made of the River Thames)

ON THE VERGE OF LIFE
(Explores the wildlife thriving on motorway verges — the narrow strips of land between the motorway hard-shoulder and the agricultural land beyond)

THE RETURN OF THE THAMES SALMON
(The story of the return of the Thames salmon after 150 years)

THE SUN IS RED
(Depicts the effects of our modern living and technology which stand to upset the cycle of nature)

LOUGHBOROUGH UNIVERSITY
ENVIRONMENTAL FILMS

Sonia Withers
Centre for Extension Studies
Loughborough University of
Technology
Loughborough
Leicestershire LE11 3TU
Tel: (0509) 263171 ext. 213 and
249

AIR POLLUTION

1. Sources and Effects
2. The Science of the Situation
3. Methods of Control

FILTRATION TECHNOLOGY

1. Filtration Systems
2. Laboratory Techniques
3. Pretreatment
4. Design of a Thickener
5. Choosing a Filter
6. Centrifuging

HAZARDS

1. Preventing Emergencies in
the Process Industries
2. Hazardous Waste Management:
People, Policies, Practice

NOISE

1. Noise and People
2. The Science of Sound
3. Control of Noise

WATER MANAGEMENT

1. Quality & Supply
2. Use & Treatment

MOTHERWELL BRIDGE TACOL LTD

Green Dragon House
64/70 High Street
Croydon
Surrey CR0 1NA
Tel: 01-686 6917 or (0698) 66111

**DONCASTER REFUSE RECYCLING
PLANT**

NO TIPPING

NATIONAL COAL BOARD

Film Branch
Hobart House
Grosvenor Place
London SW1X 7AE
Tel: 01-235 2020
Telex: 882161

**HOMEFIRE – SMOKELESS FUEL FOR
THE OPEN FIRE**

NOISE

(Introduction to noise control)

PENRHYS

(District heating scheme)

**SFAS – SOLID FUEL ADVISORY
SERVICE**

THE SHAPE OF FUEL TO COME
(Work of Coal Research
Establishment)

THE SMOKE-EATER

(Smokeless appliance)

TIP RESTORATION

(Reclaiming colliery waste tips)

WELCOME HOME

(Solid Smokeless Fuel and the
Clean Air Act)

SHEFFIELD PUBLICITY OFFICE

Town Hall
Sheffield S1 2HH
Tel: (0742) 734068 or 734130

CLEAN AIR CITY

SHELL FILM LIBRARY

Unit 2, Cornwall Works
Cornwall Avenue
Finchley
London N3 1LD
Tel: 01-349 0025

ENVIRONMENT IN THE BALANCE

(Discusses industrial expansion
and pollution)

EYE ON THE FUTURE

(The need for a low-energy future
and current developments)

FOR WANT OF WATER

(Cleaning up water supplies in the Third World)

THE RIVER MUST LIVE

(The consequences of overloading a river with waste)

THE SEA - OUR FUTURE

(Highlights problems of over-fishing and disposal of waste)

TIME FOR ENERGY

(Discusses alternative energy sources)

WRAPPING UP

(Energy conservation in the home)

VIEWTECH AUDIO-VISUAL MEDIA

161 Winchester Road
Brislington
Bristol BS4 3NJ
Tel: (0272) 773422 and 717030

ADAPTATION TO ENVIRONMENT

(The habitat of a nature reserve in S.W. Spain)

ECOLOGY OF AGRICULTURE

(The effects of modern agricultural methods)

LOVE YOUR LUNGS

(The dangers of smoking)

OF BROCCOLI & PELICANS & CELERY & SEALS

(The contamination of the natural food chain by pesticides)

**PLANT-ANIMAL COMMUNITIES:
ECOLOGICAL SUCCESSION**

(The long-term replacement of one form of vegetation by another)

THE ESTUARY

(Estuarine ecology and the influence of man)

THE MASS SPECTROMETER

(The application of mass spectrometry in industry and research)

THE NITROGEN CYCLE

THE PROBLEM OF REFUSE DISPOSAL

(Survey of refuse disposal methods today)

WHO NEEDS A CHIMNEY IN THE HEAD?

(Anti-smoking message)

VISCOM LTD

Film & Video Library
Parkhall Road Trading Estate
London SE21 8EL
Tel: 01-761 3035

BRITISH GAS FILMS distributed
by Viscom

A SUN FOR ALL SEASONS

(Why the seasons change)

BE SAFE WITH GAS

(Do's and don'ts of using gas)

CO POISONING

(Highlights problem of carbon monoxide poisoning - intended for professionals)

ENERGY IN TIME

(Computer becomes time machine to teach boy about energy conservation)

I'M GLAD YOU ASKED THAT QUESTION

(Cartoon about natural gas)

NOW & THEN

(Light-hearted look at history of gas industry)

ON THE GAS - RECALL 1 & 2

(Retrospective on gas - from street lighting to theatre footlights)

THERE WILL BE GAS

(All aspects of gas industry, including noise suppression and electronics)

THE WASTEFULS - SAVE THEIR ENERGY

(Puppets and music encourage energy conservation)

WHY DON'T YOU PAINT IT GREEN?
(Gas industry's efforts to protect environment)

W.I.S.E. WITH GAS
(How Women Into Science & Engineering scheme is supported by British Gas)

CEGB FILMS & VIDEOS distributed by Viscom

A TRICK OF THE LIGHT
(Controlling chimney emissions from power stations)

ACID RAIN

ANOTHER SAFE JOURNEY
(Transportation of irradiated nuclear fuel)

ELECTRIC MOUNTAIN
(The Dinorwig hydro-electric power station)

OPERATION SMASH HIT
(The train crash test for the safety of nuclear fuel transportation flasks)

OPPORTUNITY AT SIZEWELL
(Why CEGB wants a PWR at Sizewell)

POWER TO THE PEOPLE
(Looks at the National Grid)

SAFETY FIRST
(Design, construction and operation of nuclear power stations)

SEARCH FOR A SITE
(Finding new power station sites)

THE BALANCED JUDGEMENT
(Producing electricity with concern for the environment)

OTHERS

FLOODING RIVER
(Need to understand rivers before further damage done)

INTO THE DEEP
(Extracting oil from deep water fields)

RECOVERY & TREATMENT OF EMULSIONS
(Combatting oil pollution at sea and on beaches)

THE OIL STORY
(Cartoon explaining origins of oil)

THE RIDDLE OF THE DEEP
(Oil industry technology in exploration and offshore production)

TOTAL A L'HEURE SOLAIRE
(Total's involvement in solar energy)

VERY VERSATILE MOLECULES
(Cartoon of what happens in an oil refinery)

BARRY WILES FILMS
London Road Trading Estate
Sittingbourne
Kent ME10 1NQ

IF YOU CAN KEEP YOUR COOL
(Air conditioning)

NOW AND THEN
(Development of British Gas Industry)

GENERAL AUDIO-VISUAL TEACHING AIDS (FILMSTRIPS, SLIDES, CASSETTES ETC.) ON ENVIRONMENTAL SUBJECTS

(N.B. Items listed are filmstrips/slide sets unless otherwise stated)

AEROFILMS LTD
Gate Studios
Station Road
Boreham Wood
Herts. WD6 1EJ
Tel: 01-207 0666
Fax: 01-207 5433

Oblique and vertical AERIAL PHOTOGRAPHS of all parts of the UK.

CAMERA TALKS LTD

197 Botley Road
Oxford OX2 0HE
Tel: (0865) 726625
Telex: 837416 Oxstat G

BREATHING APPARATUS PARTS 1 & 2

A GUIDE TO THE HEALTH & SAFETY
AT WORK ACT 414 PARTS 1-3

HAZARD SPOTTING WITHIN INDUSTRY
303 PARTS 1 & 2

HAZARDOUS MATERIALS IN INDUSTRY
385 PARTS 1 & 2

HAZARDS OF DISPOSAL 313

NOISE & HEARING 263 PARTS 1 & 2

POLLUTION – CAUSES & EFFECTS 307

THE ENVIRONMENTAL HEALTH OFFICER
332

TREATMENT OF SEWAGE & OTHER USED
WATERS 339/7

DRAKE EDUCATIONAL PRODUCTIONS

St. Fagan's Road
Fairwater
Cardiff CF5 3AE
Tel: (0222) 560333

ATOMIC ENERGY

COAL, PETROLEUM AND METHANE

ECOLOGICAL HABITATS

ECOLOGY OF A CANAL

ECOLOGY OF A TREE

ENERGY: THE FUTURE ALTERNATIVES
(Study pack)

ENVIRONMENTAL QUALITY

1. RURAL DERELICTION
2. URBAN DERELICTION

INDUSTRIAL LOCATION & THE
ENVIRONMENT

MAN AND HIS ENVIRONMENT

OUR CLIMATE AND WEATHER

THE STORY OF OIL

THE WATER CYCLE
(Slide set)

WATER
(Slide set)

THE WEATHER
1. OUR WEATHER
2. THE WEATHER GUIDE
3. OUR CLIMATE & WEATHER

INTERNATIONAL CENTRE FOR
CONSERVATION EDUCATION

Greenfield House
Guiting Power
Cheltenham
Glos. GL54 5TZ
Tel: (045 15) 549
Slide packs with cassettes:

A GREEN EARTH ... OR A DRY
DESERT? AVP 067
(Tropical forests)

ACID RAIN – THE SILENT CRISIS
AVP 079

HELP SAVE THE WORLD AVP 056
(Multi-media kit on World
Conservation Strategy)

LIFE AT THE WATER'S EDGE AVP 087
(Wetland conservation)

PLANNING FOR SURVIVAL AVP 077
(World Conservation Strategy)

RENEWABLE ENERGY FOR TODAY &
TOMORROW AVP 069

SAVING THE PLANTS THAT SAVE US
AVP 076

WHY CONSERVE WILDLIFE? AVP 002

PICTORIAL CHARTS EDUCATIONAL
TRUST

27 Kirchen Road
London W13 0UD
Tel: 01-567 9206 & 5343

POLLUTION

(Photopack surveying main forms of pollution)

RESPIRATION

(Pictures, chart and notes on pollution and respiration)

SMOKING

(Pictures, worksheets and notes on resisting pressure to smoke)

VIEWTECH AUDIO-VISUAL MEDIA

161 Winchester Road

Brislington

Bristol BS4 3NJ

Tel: (0272) 773422 and 717030

ECOLOGY: BALANCE OF NATURE

(Interactions of food chains, disease, weather, chemical cycles, etc)

ECOLOGY: SPACESHIP EARTH

(Problems of pollution, over-population and consumption)

DIANA WYLLIE LTD

Unit 8, Peverel Drive

Granby

Milton Keynes MK1 1NL

A SCREEN COLOUR GUIDE TO CLOUDS

(PARTS 1 & 2) DW-187 & DW-188

AIR POLLUTION (PARTS 1&2) DW-145 & DW-146

CLOUD FORMS (PARTS A&B) DW-130 & DW-131

CLOUD RECOGNITION DW-132

CLOUDS DW-19

ENERGY (PARTS 1&2) DW-166 & DW-167

KEEPING A WEATHER LOG DW-140

MAN-MADE WORLD (PARTS 1-4) DW-126 - DW-129

METEOROLOGICAL INSTRUMENTS DW-48

NATURE CONSERVATION IN THE BRITISH ISLES DW-144

NOISE POLLUTION & ITS CONTROL (PARTS 1&2) DW-175 & DW-176

NUCLEAR POWER (PARTS 1-3) DW-170 - DW-172

POPULATION & RESOURCES (PARTS 1&2) DW-156 & DW-157

RUNNING A SCHOOL WEATHER STATION (PARTS A&B) DW-41 & DW-42

STABLE WEATHER DW-31

THE AIR YOU BREATHE DW-159

UNSTABLE WEATHER DW-30

WATER & RECYCLING DW-165

WATER POLLUTION (PARTS 1&2) DW-147 & DW-148

WEATHER STUDY WITH SATELLITES (PARTS 1-3) DW-185, DW-186 & 186B

DIRECTORY OF CONSULTANTS

ACOUSTIC TECHNOLOGY LTD

58 The Avenue,
Southampton
Tel: Southampton (0703) 37811
Telex: 47156 AT G

Independent firm of noise and vibration consultants established in 1970. There are over twenty well qualified specialists with a full range of instruments and laboratory facilities at their disposal. Services provided range from surveys and remedial recommendations for factory or community problems, to comprehensive impact studies and designs for major new projects.

ACOUSTICAL INVESTIGATION & RESEARCH ORGANISATION LTD (AIRO)

Duxon's Turn,
Maylands Avenue,
Hemel Hempstead,
Herts. HP2 4SB
Tel: Hemel Hempstead (0442) 47146
Telex: 945922 (for AIRO)
Fax: (0442) 56749

AIRO is an independent consultancy offering an impartial service for any scale of project in acoustics, noise and vibration control, and electroacoustic system design. With its own extensive laboratory facilities, including reverberant suites and anechoic chamber, AIRO provides a comprehensive service in all aspects of acoustic measurement, appraisal and design work.

ANALYSIS FOR INDUSTRY

Factories 2/3, Bosworth House,
High Street, Thorpe-le-Soken,
Essex CO16 0EA
Tel: Clacton-on-Sea 861714
(STD 0255)
Colchester 570315
(STD 0206)

Sampling, laboratory analysis and technical appraisal services - including: atmosphere testing (e.g. office or factory working conditions), asbestos identification and estimation, monomer contents and other health and safety limits, water pollution, packaging safety, forensic work, expert witness. Full instrumentation (chromatography - GLC, TLC, HPLC, I-R visible and U-V spectroscopy, spectrophotometry, spectrography, polarography, etc.)

ATKINS & DOWNIE

26 Domine Lane, Rotherham S60 1QA
Tel: Rotherham (0709) 65151/2

Mechanical and Electrical Services. Design Consultants Specialising in: Technical and Economic Appraisals of Existing DH/CHP Plants. Investment Analysis of Capital Expenditure in Existing/Future Plant and Equipment. Chimney and Flue Gas Dispersal Investigations and Equipment Selection. Energy Conservation. Combined Heat and Power Technology. Terotechnology Energy Management and Waste Heat Recovery. Building Services Design Consultancy In:- Air Conditioning - Ventilation - Heating - Steam - Condense - District Heating - Process Services - Domestic Hot and Cold Water - Drainage and Sanitation - Fire Services and Sprinklers - Electric Lighting & Power-Lifts - Hoists - Sound Attenuation - Security and Allied Services.

BCRA SCIENTIFIC & TECHNICAL SERVICES LTD

Mill Lane, Wingerworth,
Chesterfield, Derbyshire S42 6NG
Tel: Chesterfield (0246) 209654

Sampling and specialist evaluation of carbonaceous materials; air pollution monitoring; dust/grit measurement in chimneys etc; personal sampling and occupational hygiene services. Also odour problem investigation including odour emission measurement, liquid effluent analysis and effluent treatability studies. Provision of basic process design data, plant troubleshooting and consultation with Water Authorities and Contractors.

**BERRIDGE ENVIRONMENTAL
LABORATORIES LTD**

Robjohns Road, Chelmsford,
Essex CM1 3TW

Tel: Chelmsford (0245) 268461
Telex: 995282 HBB G

Consulting services and analysis on solid, liquid and gaseous wastes. Environmental monitoring and management for industry. Asbestos identification and atmospheric fibre counting. Toxic and hazardous wastes a speciality.

**CAMBRIDGE ENVIRONMENTAL RESEARCH
CONSULTANTS (CERC) LTD**

22 Hills Road,
Cambridge CB2 1JP

Tel: Cambridge (0223) 354978
Telex: 817343 BLUCAM G

CERC Ltd is an independent firm of environmental consultants bringing together some of the world's leading authorities in fluid mechanics, particularly dispersion, pollution and environmental management problems.

The services offered include:

- field measurement of flows and particular concentrations
- physical and chemical analysis of materials
- computer modelling
- laboratory experimentation using wind tunnels and flumes

- specialist advice on the development and application of computer codes
- risk assessment (including financial and legal aspects)
- expert witness

Clients include national and local government organisations, major international manufacturing and mining companies, insurance companies, the legal profession and other firms of scientific and architectural consultants.

CONRAD ASSOCIATES

13 Nash Green,
Bromley,
Kent BR1 4ED
Tel: 01-466 1433

Consultant providing independent acoustics, noise and vibration investigation, measurement, design and consultancy services including:

- industrial and environmental noise surveys
- expert acoustics testimony for legal and planning procedures
- planning and design for noise abatement
- room acoustics and noise control design for buildings
- noise and vibration control applications for building services.

CPA ENVIRONMENTAL CONTROL ASSOCIATES

318 Worple Road,
London SW20 8QU
Tel: 01-946 8621

Consulting scientists: air pollution; NATLAS accredited for asbestos analysis and airborne fibre/dust monitoring; occupational hygiene surveys and environmental protection of work premises; noise surveys; microbiological assessments.

DR. S.R. CRAXFORD ISO
24 Field Lane, Letchworth,
Herts. SG6 3LE
Tel: Letchworth (0462) 685085

Specialist in air pollution.

CREMER & WARNER
140 Buckingham Palace Road,
London SW1W 9SQ
Tel: 01-730 0777
Telex: 918666 (CRECON G)

An engineering, management and scientific consultancy founded in 1946 whose basic discipline of chemical engineering has developed over the past 20 years into the environmental and safety fields.

In Air Quality, Cremer and Warner have extensive expertise in dust, odours, noise and the full range of air pollutants, ranging from air quality impact prediction, modelling and monitoring, evaluation of nuisances, planning and enforcement proceedings, to legislation and implementation of statutory regulations, technical aspects of emission control etc. Advice is given to the full range of process manufacturing and mineral industries, local authorities, many central government and international bodies etc.

Cremer and Warner are also fully involved in hazard and risk audits and analysis, waste disposal, water pollution and all aspects of environmental and safety work, including Litigation, Arbitration and Expert Witness activities.

ENVIRONMENTAL RESOURCES LTD
106 Gloucester Place,
London W1H 3DB
Tel: 01-486 1211
Telex: 296359 ERL G

Environmental Resources Limited specialises in environmental protection. This encompasses expertise in the natural sciences, engineering, economics and management. Particular services offered are:

- environmental impact and risk assessment for major projects
- air, water, noise pollution monitoring and dispersion modelling
- pollution control and solid waste disposal strategies
- contaminated land and rehabilitation of sites
- litigation and public enquiry services
- economic, marketing, policy and legislation studies
- energy and resource planning
- occupational health and consumer products control

Multi-disciplinary services are offered to international bodies, national, regional and local government, industry and commerce.

HUNTINGDON RESEARCH CENTRE LTD
(DEPARTMENT OF INHALATION TOXICOLOGY)
Huntingdon, Cambs. PE18 6ES
Tel: Huntingdon (0480) 890431
Telex: 32100

Huntingdon Research Centre is an independent contract research organisation offering confidential services and consultancy relating to the biological safety evaluation of chemicals - involving toxicity, carcinogenicity and mutagenicity tests, chemical and analytical services, etc. In particular, the Department of Inhalation Toxicology covers aspects of aerosol technology and inhalation toxicity testing.

INDUSTRIAL GAS CLEANING ASSOCIATION
15 Tooks Court, London EC4A 1LA
Tel: 01-831 7581
Telex: 297510 VALOCK G

Provision of technical information and advice. The Association has produced 5 booklets about specific applications which are available from the above address at 25p each (postage and packing free). Also general information booklet about Association and Members - free.

LABORATORY OF THE GOVERNMENT CHEMIST

Cornwall House,
Waterloo Road,
London SE1 8XY
Tel: 01-211 8375
Telex: 8813148 DIHQG
Fax: 01-928 2655

The Laboratory offers a comprehensive service of sampling, analysis and advice relevant to the monitoring of hazardous substances in air. Techniques ranging from simple field tests to those requiring sophisticated laboratory instruments are available to monitor a wide variety of substances including gases, vapours, fumes, dusts, metals and asbestos.

LEVINGTON LABORATORIES

Levington Research Station,
Ipswich, Suffolk IP10 0LU
Tel: Ipswich (0473) 715161
Telex: 98273

Dust and fume sampling and analysis for respirable and non respirable fractions, individual metals, asbestos, quartz and other constituents. Design and consultancy service for air pollution control. Specialist analytical service including scanning electron microscopy, X-Ray diffraction. Noise measurement.

LYNE, MARTIN & RADFORD (PUBLIC ANALYSTS)

The Public Analyst's Laboratory,
220 Elgar Road, Reading RG2 0DG
Tel: Reading (0734) 868877
Telex: 265871 MONREF G
Quote 81: MMU075

Chemical, microbiological and microscopical examination of air samples, dusts and polluted atmospheres; particle size analysis; asbestos fibre counts.

MARTEC ENVIRONMENTAL ENGINEERING

Gerrard Place,
Skelmersdale,
Lancs. WN8 9SJ
Tel: Skelmersdale (0695) 25121
Telex: 629535
(Also at London and Edinburgh)

An independent Company of noise and vibration consultants established in 1972. Specialist services include:

- advice to residents' associations about noise law and planning; and to manufacturing companies about noise induced hearing loss and environmental noise pollution.
- expert witnesses available with Court and Public Inquiry evidence
- problems tackled by surveys followed by issue of report with recommendations.

METAL BOX ENGINEERING

Chew Moor Lane, Westhoughton,
Bolton, Lancs, BL5 3JL
Tel: Westhoughton (0942) 815111
Telex: 67163
Contact: K. Roberts,
Contracts Engineer

MIDLAND ANALYTICAL CONSULTANTS

32 Hanbury Road, Dorridge,
Solihull, W. Midlands B93 8DW
Tel: Knowle (05645) 3804

Consulting chemists for: air and water pollution; insulation and buildings materials; health and safety investigations; food and food processing.

MIDLAND ENVIRONMENT LTD

Aston Science Park,
Love Lane,
Birmingham B7 4BJ
Tel: 021-359 0981
Telex: 334535 BMTECH G

Offers a professional scientific service for monitoring and assessment of environmental pollution. Principal services are: monitoring of air, water, soil and noise pollution; analysis and prediction of household, industrial and commercial wastes arisings; nature conservation strategies; computer modelling and mapping of pollution and independent policy research.

Midland Environment is a non-profit company limited by guarantee. Its objects are to conduct research and provide services aimed at improving the quality of the environment and improving the effectiveness of environmental policy.

NOISE ADVISORY SERVICES

3 Chapel Lane, Brockley,
Nr. Bury St. Edmunds,
Suffolk IP29 4AS
Tel: Bury St. Edmunds (0284)
830605
Telex: 817223 CATELX G

Noise Advisory Services offer an acoustics consultancy service covering most aspects of acoustics and noise control. These services include environmental noise surveys, advice on buildings and architectural acoustics both at the initial design stage and remedial work, on-site acoustic

testing, building services acoustic design, and industrial noise control. Noise Advisory Services also have considerable experience in off highway vehicle noise including constructional site equipment.

OAKWOOD ANALYSIS CENTRE LTD

Unit 42,
Oakwood Hill Industrial Estate,
Loughton,
Essex IG10 3TZ
Tel: 01-508 3861/2

Environmental consultants, specialising in asbestos monitoring, surveying and identification. Also microbiological analysis, noise surveys, gravimetric dust surveys, microwave leakage detection plus many other environmental services to public and private sector.

OCCUPATIONAL HEALTH SERVICES

Listerhills Science Park,
17 Campus Road, Bradford
BD7 1HR
Tel: Bradford (0274) 735848

Occupational Health Services provide a comprehensive monitoring and analytical service in the field of environmental and occupational safety and hygiene. One of the leading laboratories in the country for identification and airborne monitoring of asbestos, OHS are at present carrying out extensive surveys for local authorities, asbestos removal contractors and other private companies. Also equipped for monitoring a whole range of pollutants likely to be encountered in industrial atmospheres and employing methods in line with current recommendations. Examples are: lead-in-air surveys for non-ferrous foundries, formaldehyde

levels for board manufacturers, paper dust and solvent fumes in printing works, nuisance dusts in a whole range of manufacturing processes. Future noise legislation will place a duty on companies to comply with statutory limits set down by the HSE for which OHS are able to provide assistance in the form of surveys to identify problem areas and practical advice on noise reduction through engineering control. As a service to customers OHS supply the Martindale Mark 5 Positive Pressure Respirator complete with replacement filters; for companies engaged in their own monitoring, air sampling equipment and accessories are supplied. For details of prices and full range of services ring Martin Penny on 0274 735848

POLLUTION RESEARCH UNIT
INDUSTRIAL CONSULTANCY
SERVICES, UMIST

PO Box 88, Sackville Street,
Manchester M60 1QD
Tel: 061-236 3311
Telex: 666094 UMIST G
(Contact: Dr. Mike Willison)

The Pollution Research Unit (PRU) undertakes consultancy work in the areas of air and water quality monitoring, waste water treatment, disposal and treatment of solid and toxic wastes, analysis of contaminated land and the risk of major hazards. The PRU is well equipped to offer a wide variety of services in air quality monitoring. These cover particulate sampling (including gravimetric, particle size and comprehensive chemical analysis), microscopic examination of particulates,

personal monitoring, site surveys, foul odour problems, aerial surveys using an instrumented light aircraft (in conjunction with Physics Dept., UMIST). Consultancies are usually arranged on a contract, daily or per-sample basis.

BRIAN PRICE

14 Coombe Road,
Weston-super-Mare,
Avon BS23 2QP
Tel: Weston-super-Mare
(0934) 33497

Advice and research on air and land pollution; monitoring of pollutants undertaken and reports prepared. Talks service available.

CALVERT STINTON & ASSOCIATES

118 Offington Avenue,
Worthing,
West Sussex BN14 9PR
Tel: Worthing (0903) 60334

Consulting and technical services in chemistry and mechanical engineering including interdisciplinary areas such as fuels, exhaust emissions, lubricants, engines and associated equipment. Projects undertaken involve identifying existing or designing new analysis or testing methods, feasibility studies, market surveys and technical and commercial assessments or development where engineering has a chemical, safety or materials element.

**SYPOL NOISE & POLLUTION
CONSULTANTS LTD**

Market House,
Market Square,
Aylesbury,
Bucks HP20 1TN
Tel: Aylesbury (0296) 5715
Telex: 837520 ADIRAV G

SYPOL Noise and Pollution Consultants Ltd is an independent company of consultants specialising in noise and air pollution problems over a wide range of this field. Activities include services for the monitoring of noise, asbestos, acid rain, smoke emission and all forms of atmospheric pollutants in occupational and environmental contexts.

TECHNICA LTD

Lynton House,
7/12 Tavistock Square,
London WC1H 9LT
Tel: 01-388 2684
Telex: 22810 TECNIC G
Fax: 01-387 3550

TECHNICA is an independent consultancy, specialising in Environmental Studies, Industrial Safety, Plant Reliability, Risk Assessment, Software Development and Sales, Human Factors, Ergonomics and Structural Dynamics.

TECHNICA's activities cover a wide range of projects: Offshore Oil and Gas, Chemical Plants, Pipelines, Nuclear Power and Transportation by Rail, Road and Sea.

ENVIRONMENTAL STUDIES:

- Air Pollution Impact Assessment and Control Technologies
- Oil Pollution from Tankers, Platforms

- and Pipelines
- Acid Rain
- Waste Disposal, including Hazardous Chemicals and Radioactive Wastes.

TECHNICA-INDECON is a subsidiary of TECHNICA LTD. specialising in occupational and environmental noise and vibration assessment, design and control.

- Acoustic design of offshore living quarters
- Noise control on offshore platform
- Prediction of noise levels for machinery
- Environmental noise impact studies
- Noise control at mines and quarries
- Control strategies for existing and planned plants.

TECHNICA-INDECON LTD

Lynton House,
7/12 Tavistock Square,
London WC1H 9LT
Tel: 01-388 2684
Telex: 22810 TECNIC G
Fax: 01-387 3550

Also at:
Sutton Place,
49 Stoney Street,
Nottingham NG1 1LX

25 Crown Street,
Aberdeen AB1 2HA.

TECHNICA-INDECON provides an independent consultancy service in the areas of environmental and occupational noise and vibration assessment, design and control. Areas of experience include the following:

- SURVEYS, MONITORING AND ANALYSIS**
- occupational noise exposure audits (onshore and offshore industries)

- environmental baseline surveys and road traffic noise surveys
- investigation and diagnosis of noise and vibration problems
- machinery condition monitoring
- assessment of legal claims.

PLANNING

- provision of advice on suitable design criteria
- prediction of noise and vibration levels within factories and in surrounding environments
- development of computer prediction models
- assessment of impact of noise on communities (including nuisance contour mapping)
- specifications for machinery, plant and building materials to meet criteria
- provision of expert evidence.

CONTROL AND DESIGN

- control strategies for existing and planned plant
- R&D work with machinery manufacturers
- design for building acoustics and HVAC noise and vibration control (including offshore facilities)
- equipment noise testing.

THOMSON LABORATORIES

The Stocks, Cosgrove,
Milton Keynes MK19 7JD
Tel:
Milton Keynes (0908) 562925
Fax: 0908 561512

Other offices at:
5 Charlotte Road,
London EC2A 3DH
Tel: 01-739 2314
Fax: 01-729 7895

219 Bury New Road,
Whitefield,
Manchester M25 6QW
Tel: 061-766 8248
Fax: 061-766 5987

4 Lynedoch Place,
Glasgow G3 6AB
Tel: 041-332 2881
Fax: 041-332 3385

Thomson Laboratories is a major consultancy specialising in environmental pollution and occupational hygiene. With a nationwide network of branches, Thomson Laboratories provides a fast efficient service to industry, local authorities and the general public. A wide range of site surveys is undertaken and extensive laboratory analytical facilities are available. In addition, Thomson Laboratories offers a specialist asbestos service and training programmes on a variety of environmental topics.

DR. F.H.H. VALENTIN

MSc PhD CEng FICHEM M Cons E
Elm Tree House, Letchworth Lane,
Letchworth, Herts. SG6 3ND
Tel: Letchworth (0462) 684940

Odour assessment and abatement;
dust and fume control; control of noxious gases and vapours; design of scrubbers, absorbers and peat bed systems, adsorbers and incinerators; efficient handling of powders and granular materials; ventilation; plant and process changes to minimise air pollution; environmental impact assessments; safety audits; insurance matters; expert witness; design and commissioning; problem solving; testing and laboratory facilities; languages.

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Environmental Consultancy
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Lancaster Building,
High Street,
Newcastle-under-Lyme ST5 1PQ
Tel: Newcastle (0782) 612626
Telex: 33607

Established in 1840, Wardell
Armstrong offer consultancy
services in the following
areas:

- Pollution Studies
- Investigation and
Restoration of Derelict
and Contaminated Land
- Waste Disposal
- Hazard Assessments
- Environmental Impact
Assessments
- Environmental Monitoring
and Surveys
- Water Resource Management
and Advice
- Conservation Studies

A brochure containing full
details of the services
offered by Wardell Armstrong
is available on request.

WARREN SPRING LABORATORY

Gunnels Wood Road,
Stevenage, Herts. SG1 2BX
Tel: Stevenage (0438) 313388
Telex: 82250

WSL, the Dept. of Trade and
Industry's specialist
laboratory, offers a wide
range of expertise and
facilities. It has research
divisions in: Air Pollution;
Pollution Abatement; Oil
Pollution; Materials Recovery;
Materials Handling; Minerals
and Metals; Control Engineering;
and Biotechnology. WSL
undertakes both contract
research for individual
companies and multi-client
co-operative projects, where
the cost is borne in part by
the Dept. of Trade and Industry.

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CASELLA

Belmont House
Vicarage Road
Edgbaston
Birmingham
B15 3EZ
Tel: 021-454 9922
Telex: 261641
Fax: 021-454 1881

Services include

- Environmental Impact
Assessment
- Investigation and
Reclamation of Derelict
and Contaminated Land
- Occupational Hygiene,
Safety and Health
- The Atmosphere and
Atmospheric Quality
- The Water Cycle and
Water Quality
- The Built Environment

TRADE DIRECTORY & BUYERS' GUIDE

AIRMASTER ENGINEERING LIMITED

Olympia Works, Roundhay Road,
Leeds LS8 4BH.

Tel: Leeds (0532) 400500

Telex: 557227

Airmaster

Air pollution control equipment,
including bag houses, dust
collectors, fabric filters, flue
dust extraction plant and gas
cleaning plant.

AMBUCO DIVISION

EIMCO PROCESS EQUIPMENT LTD

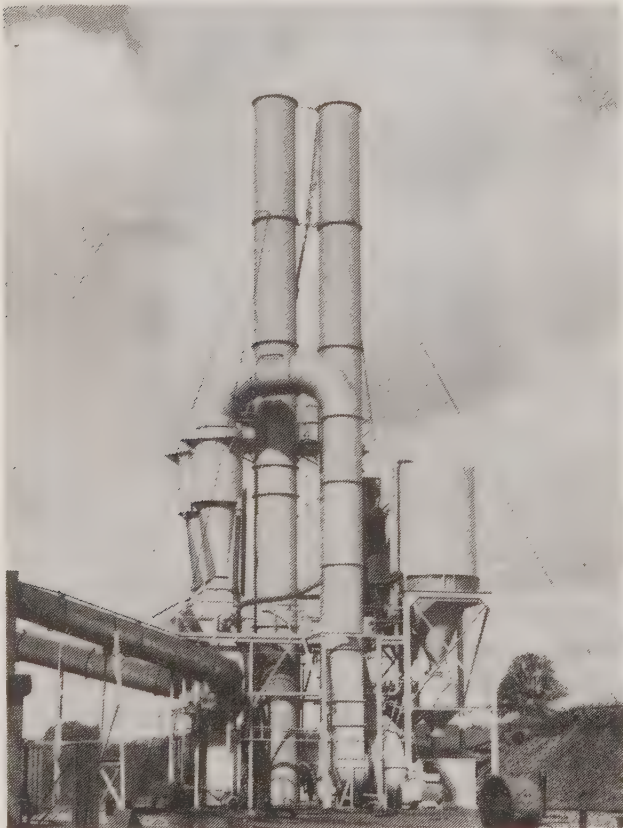
Mansard Close,

Northampton NN5 5DL

Tel: Northampton (0604) 52411

Telex: 311705

Fax: 0604 57256



Designers and suppliers of a
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collection equipment including
high efficiency cyclones,
multicyclones, fabric filters,
venturi and adsorption scrubbers
and grit collectors. Other
associated products include
fluidised bed dryers and coolers,
powder classification and liquid-
solid separation equipment.

ANALYSIS AUTOMATION LTD

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Telex: 837509



Analysis Automation Limited
manufacture and market the widest
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pollution, emission monitoring,
industrial safety and process
control, available in the UK.
In addition to the supply of
analysers, AAL build complete
analytical systems and mobile
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systems, calibration facilities
and data handling.

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43224
Telex: 928368

Manufacturers of oil-free
diaphragm air and gas
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and battery sampling
equipment.

BAHCO VENTILATION LTD

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Southam,
Leamington Spa
Warks. CV33 0DJ
Tel: Southam (092 681)
3232
Telex: 317385
Fax: 4546

Manufacturers of air
movement and air treatment
equipment. Products include
air handling units for
filtration, heating, cooling,
humidifying; air curtains
for energy saving and draught
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terminal units; Tomex extract
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Specialists in heat recovery.

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BRD (Air Conditioning) Ltd is
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British manufactured air
conditioning and heat pump
equipment. The company also
has a branch office and
warehouse facility located in
Bristol to service the South
West and Midlands areas.

The company product range
includes equipment from
Qualitair, Myson, Marstair,
Prestair, R.A. (Air Conditioning)
Company and Calder. Additional
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controls.

**BRISTOL INDUSTRIAL & RESEARCH
ASSOCIATES LTD**

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Bristol BS20 9JB.
Tel: Portishead (0272) 847787
Telex: 444214

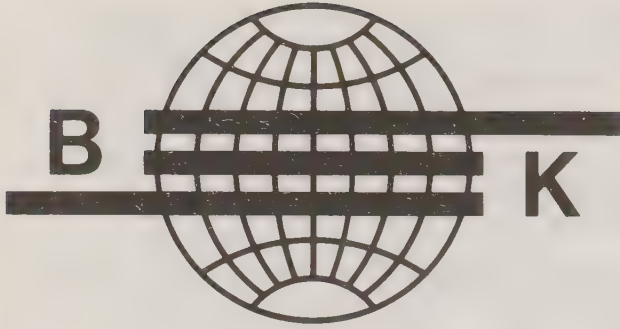


Distributors of scientific
equipment, specialising in
equipment for the detection and
measurement of airborne
pollution.

BRUEL & KJAER (UK) LTD

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92 Uxbridge Road,
Harrow,
Middlesex HA3 6BZ
Tel: 01-954 2366
Telex: 934150 BK UK G
Fax: 01-954 9504

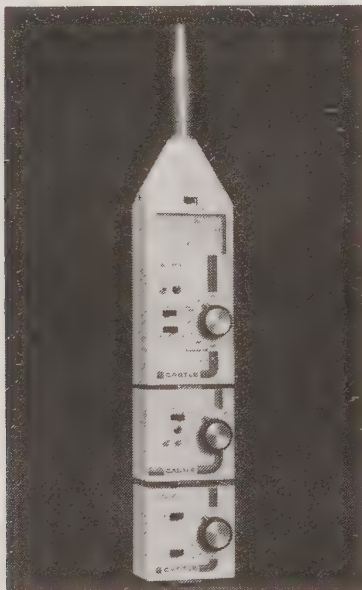
Noise, Vibration, Thermal and
Illumination measurement
analysis and recording
equipment from BRUEL & KJAER -
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Simple sound level meters to
sophisticated - but easy to
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Our 'HUMAN ENVIRONMENT MEASUREMENTS' brochure gives full details and is available free on request.

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North Yorkshire YO11 3UZ
Tel: Scarborough (0723) 584250
Telex: 527244 Castle G



Castle Associates is an independent British firm which has been manufacturing noise and vibration measuring and control products since 1971. A full calibration service is available at the company's modern factory in Scarborough; the company also offers acoustic consultancy and noise control services.

COALITE FUELS & CHEMICALS LTD

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822281/9

Telex: 54250



The Company, part of the Coalite Group PLC, manufactures "Coalite" smokeless coal and is Britain's largest independent producer of solid smokeless fuel for open fires, roomheaters and boilers. There are works at Grimethorpe, Yorkshire and at Bolsover, Derbyshire, which is linked to Coalite's own refinery.

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Tel: Leicester (0533) 696161

Telex: 342409 DUST G

Fax: (0533) 693028



Design, manufacture, sale and installation of dust control equipment for industrial process applications. Products include a wide range of dust control filtration equipment including integral fabric unit filters, self-induced spray wet de-dusters, dust control units, automatic filtration systems and custom-built installations.

DOMNICK HUNTER FILTERS LTD

Durham Road,
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County Durham DH3 2SF.
Tel: 091-410 5121
Telex: 537282

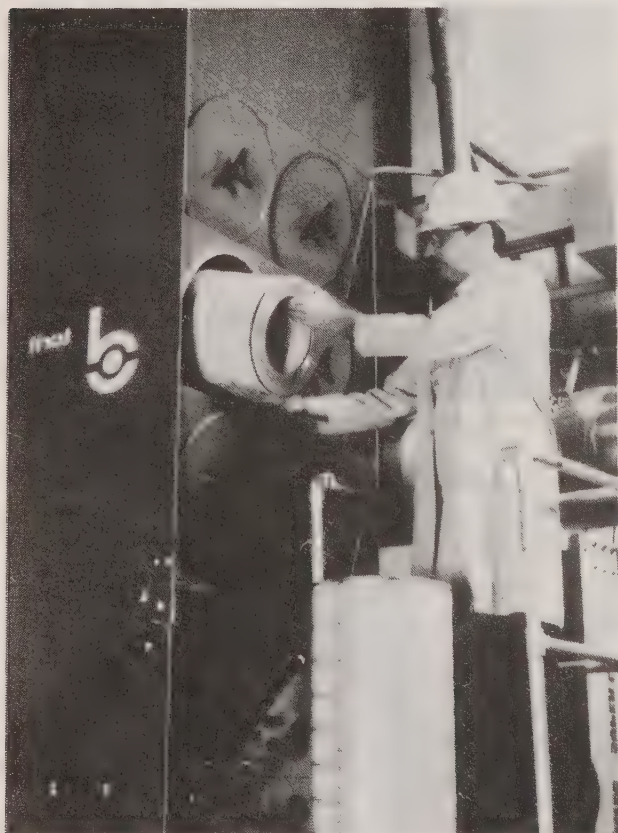


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Compressed air, gas and liquid filtration. High and low pressure breathing air treatment packs for safe breathing in hazardous environments. PNEUDRI adsorption compressed air dryers for efficient running of systems up to 2400 scfm. Comprehensive range of filtration products to cover most customer applications.

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Telex: 338940 TORIT G



A new concept in continuous duty filter cartridge dust collection has been applied by Donaldson Torit in a series of modular "Downflo" collectors, for the collection of airborne dust and particulate.

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Telex: 537850 DRAOFF G
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Electronic gas detection instruments. Colour stain tubes for detecting gases. Breathing apparatus.

DUSTCHECK LTD

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Mount Industrial Estate,
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Stone, Staffs. ST15 8LL
Tel: Stone (0785) 817125
Telex: 36274 TLXCHG

Manufacturer of dust collectors using cartridge filter elements and suppliers of cartridge filter elements to OEM users.

ENVIRO TECHNOLOGY SERVICES LTD

Unit 1, Lightpill Trading Estate,
117, Bath Road,
Stroud, Glos. GL5 3QF.
Tel: Stroud (045 36) 71641
Telex: 43432 DSA G

Enviro Technology - Specialists in Air Pollution Monitoring Equipment - market a wide range of air quality analysers which are approved and used throughout the UK and the rest of the world. Our range includes analysers for NOx, SO2, O3, H2S, CO, NH3, Hg, Dust, Toxic Gases, etc. together with calibrators and sampling systems. Our instruments are all manufactured to exacting standards to give the maximum valid data and highest possible reliability.



E.T. are happy to assist with any aspect of Air Quality Monitoring from the supply of a single analyser through to the design and build of complete analysis systems and mobile laboratories. To complete our range we offer full environmental data acquisition with central computer recording and reporting of data if required. Finally, we provide an after sales service which is second to none.

ERG (AIR POLLUTION CONTROL) LTD
Stephenson Way, Three Bridges,
Crawley, Sussex RH10 1TN.
Tel: Crawley (0293) 34751
Telex: 87509

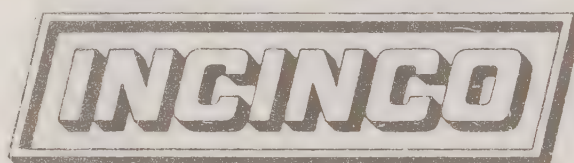


Specialists in Air Pollution Control and sole licensees for Patented Oxyflow Odour Control Systems. Total service capability, including design, installation and commissioning ensures that each system is specifically engineered to suit each application. A member company of the Environmental Resource Group, the leading

exponents in Effluent Treatment and Metal Recovery.

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Telex: 32337

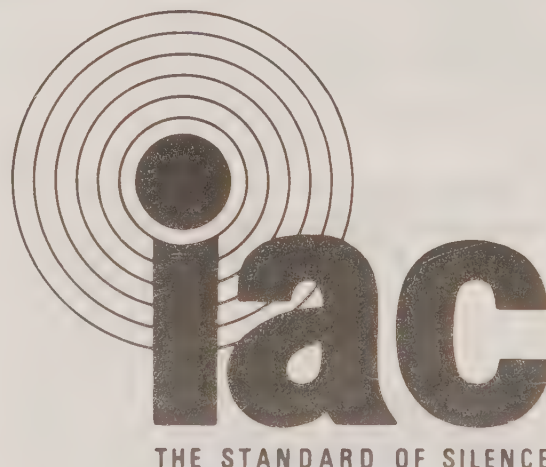
Standard and Special Purpose Incinerators and energy recovery



systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental establishments.

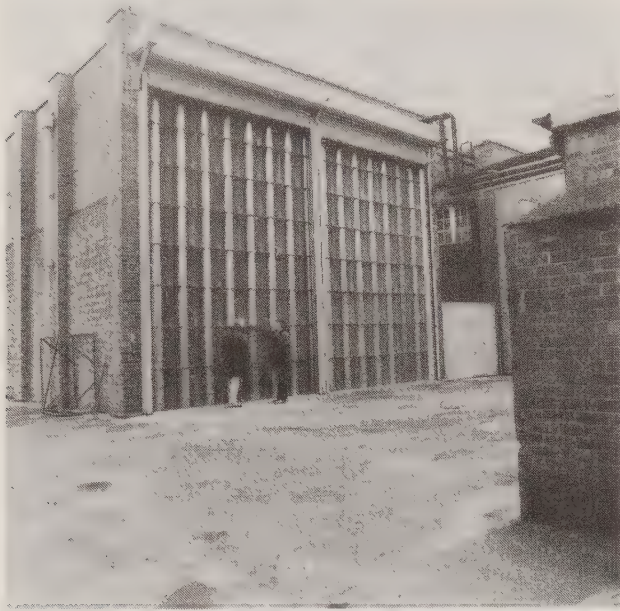
INDUSTRIAL ACOUSTICS COMPANY LTD

Walton House, Central Trading Estate,
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Telex: 25518
Fax: (0784) 63303



Industrial Acoustics Company is the largest concern in the world solely engaged in the design, manufacture and installation of all forms of noise control products and complete systems. The Company

serves virtually all spheres of industry and pioneered noise control engineering.



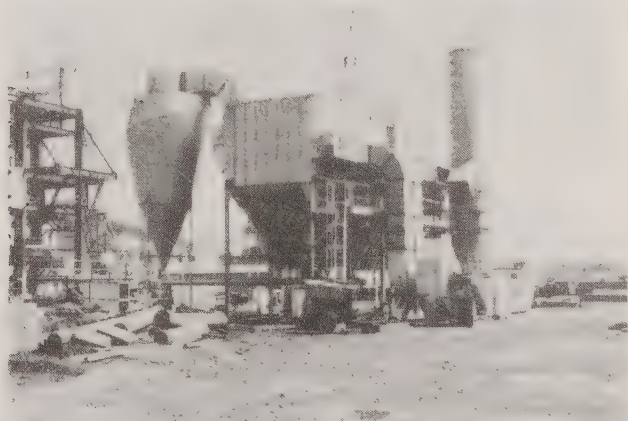
Modular IAC heavy gauge Power Flow Silencers providing inlet and outlet attenuation for a propeller test rig.

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Air Products Division
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Telex: 477428 AMMAFO G



SERVICES

Air pollution control, environmental control, odour control, specialised mechanical handling, pneumatic conveying, electric arc ventilation, SO₂ removal.

PRODUCTS

Bag filters, cyclones, scrubbers, conveyors - gravity and powered accumulation in integrated systems, invertors, transfers.

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DIVISION OF DRESSER UK LTD

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Tel: 021-236 3388

Telex: 338458

Fax: 021 233 2424

Lodge-Cottrell

DRESSER

Lodge-Cottrell design and manufacture Electrostatic Precipitators together with a large range of air pollution control equipment, including bag houses, cyclones, dryers, gas cleaning and water treatment plant.

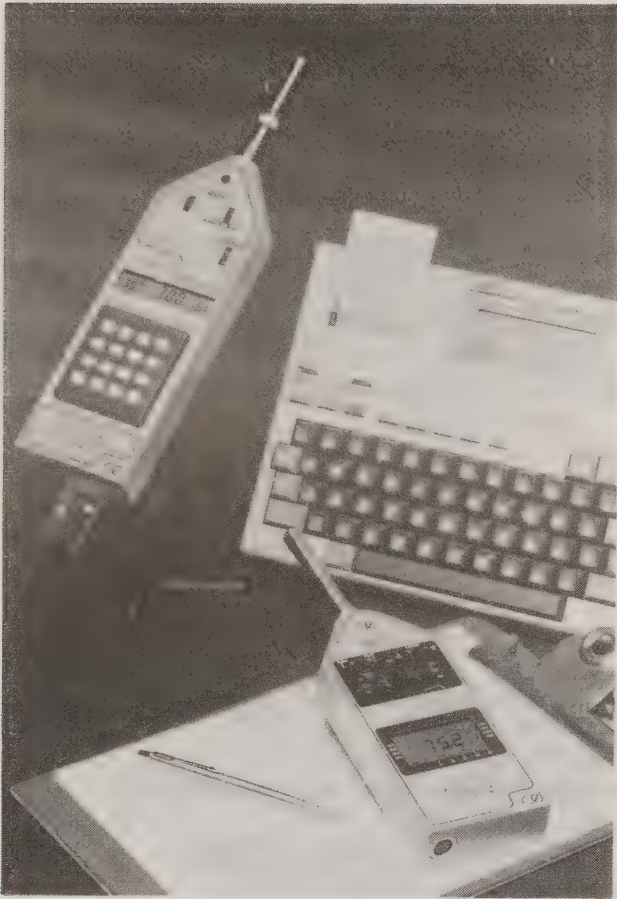
LUCAS CEL INSTRUMENTS LTD

35 Bury Mead Road,
Hitchin, Herts. SG5 1RT.

Tel: Hitchin (0462) 52731

Telex: 826615 CEL G

Lucas CEL Instruments are the United Kingdom's largest manufacturer of acoustic instrumentation and are best known for their advanced range of CEL microprocessor sound level meters and long term environmental analysers. Real time FFT frequency



analysers and high speed digital transient event recorders complement their expanding range of signal analysis equipment.

LUCAS DAWE ULTRASONICS LTD

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Tel: Bradford (0274) 737584
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A comprehensive range of Ultrasonic Atomising Systems for environmental control.

MAGNAVAC AIR SYSTEMS LTD

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Lancs. OL9 7TF
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Telex: 668300 TRUAIR

Designers and manufacturers of environmental control equipment including air conditioning, dust control

and waste recovery systems. In addition, Magnavac's Thermal Engineering Division manufactures heat recovery equipment and specialist industrial ovens and driers. Confidential dust survey service available with sampling facilities to national and international standards.

NEDERMAN LTD

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Preston PR5 8AY
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Telex: 67689

Nederman products consist of a comprehensive range of Fume Extraction equipment and a wide range of self-retracting reels for most industrial applications involving hoses and cables with special emphasis on the welding and metal fabrication market. The Fume Extraction range offers advantages of extraction at source, resulting in removal of contaminated air from the breathing zone of the individual and is based upon an inexpensive modular concept for satisfying the needs of a wide range in industrial fume problems, including welding smoke and particulate. Models include exhaust to atmosphere, electrostatic precipitators and portable mechanical filters. The range is designed for an 'off the shelf' availability of extraction fans and self supporting extraction arms of various sizes and capabilities to meet the needs of most applications. The self-retracting hose and cable reels are available for compressed air, water, oil, grease, acetylene, propane, electrical power and arc welding. Designed to make the workplace safer and more productive, the presentation is with a frame work which provides for all

these products to be supported from a wall or from above in order to keep floors clear. A full range of vehicle exhaust extraction systems for garages completes the range of products for the modern workshop.

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(Rotheroe & Mitchell)
Stocklake,
Aylesbury,
Bucks. HP20 1DR
Tel: Aylesbury (0296) 395931
Telex: 83286 (NEGZAM G)

Air and Gas Pollution Monitoring Equipment.

OEH SCIENTIFIC LTD

Aston Science Park,
Aston Triangle,
Love Lane,
Birmingham B7 4BJ
Tel: 021-359 0981/5361
Telex: 334535

Occupational and environmental hygiene walkthrough assessments; sampling; analytical services; asbestos surveys and analysis; gas standards generators; permeation tubes, thermal desorption oven tubes; air sampling pumps; PCB screening kits; contaminated or derelict land surveys; audiometric tests.

REXCO LTD

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New Ollerton,
Newark,
Notts. NG22 9QD
Tel: Mansfield (0623) 860551
Telex: 377142 REXCO G

Northern Sales Office,
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Dunfermline,
Fife KY12 7EF
Tel: Dunfermline (0383) 739857/8
Telex: 727778 SCOREX G

Domestic Solid Smokeless Fuels and Industrial Chars, produced at Ollerton in Nottinghamshire.

Rexco Limited is a subsidiary of Burnett & Hallamshire Holdings Plc.

ROYAL for openfires and REXCO NUTS for roomheaters, boilers and cookers. ASTRACITE, the latest addition to the REXCO family of smokeless coals, ideal for closed appliances.

Industrial Chars are also produced with a range of uses as wide as furnace fuel and brick manufacture and, overseas, as a reducing agent for the production of ferro alloys.

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Tel: Aldershot (0252) 316611
Telex: 858251 SABRE G



Manufacturers and suppliers of personal, portable and fixed oxygen, toxic and combustible gas detectors - including environmental, process and safety instruments, with associated data logging/acquisition units and calibration systems.

SERVOMEX LTD

Jarvis Brook,
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Sussex TN6 3DU
Tel: Crowborough (089 26) 2181
Telex: 95113

Servomex

Manufacturers of fixed and portable oxygen and infra-red analysers and process gas chromatographs for monitoring a wide range of toxic and combustible gases.

ERWIN SICK OPTIC ELECTRONIC LTD

Waldkirch House,
39 Hedley Road,
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Herts. AL1 5BN
Tel: St. Albans (0727) 31121
Telex: 263631
Fax: 0727 56767



Erwin Sick has developed a range of emission measuring instruments which afford compliance with UK and EEC environmental laws, together with data for efficient process control. The instruments have established a reputation for quality and reliability in all major industries including the cement and electricity generating industries.

SIEMENS LTD

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Telex: 8951091

SIEMENS

Liquid analysis, including pH, Redox, conductivity, dissolved oxygen and turbidity. Full selection of temperature measurement instruments from thermocouples to pyrometers. Wide range of gas analysis equipment including Environmental Emission and Immission Systems for all applications.

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Surrey GU1 4YS
Tel: Guildford (0483) 505515
Telex: 859395
Sales Enquiries: Barnsley (0226) 207680

Sterling Industrial

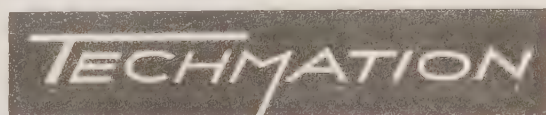
Quality through research

Zal-Air odour counteractants are specifically formulated to counter virtually any industrial or agricultural mal-odour. The smells are not merely masked but fully neutralised.

Zal-Air Systems are the scientific, cost effective solution to the problem of mal-odours. The systems are backed by the company's free on-site after sales technical service.

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Middlesex HA8 8JP
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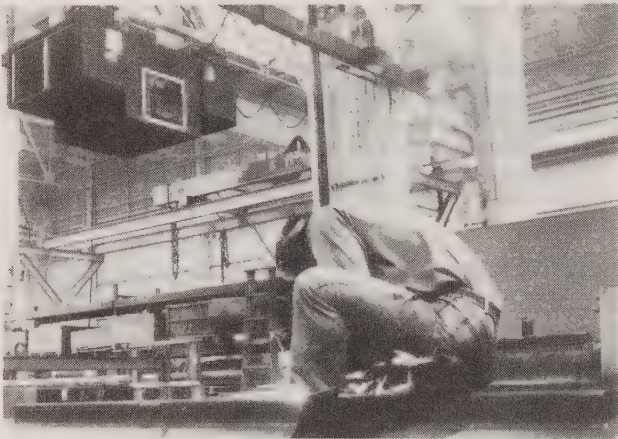
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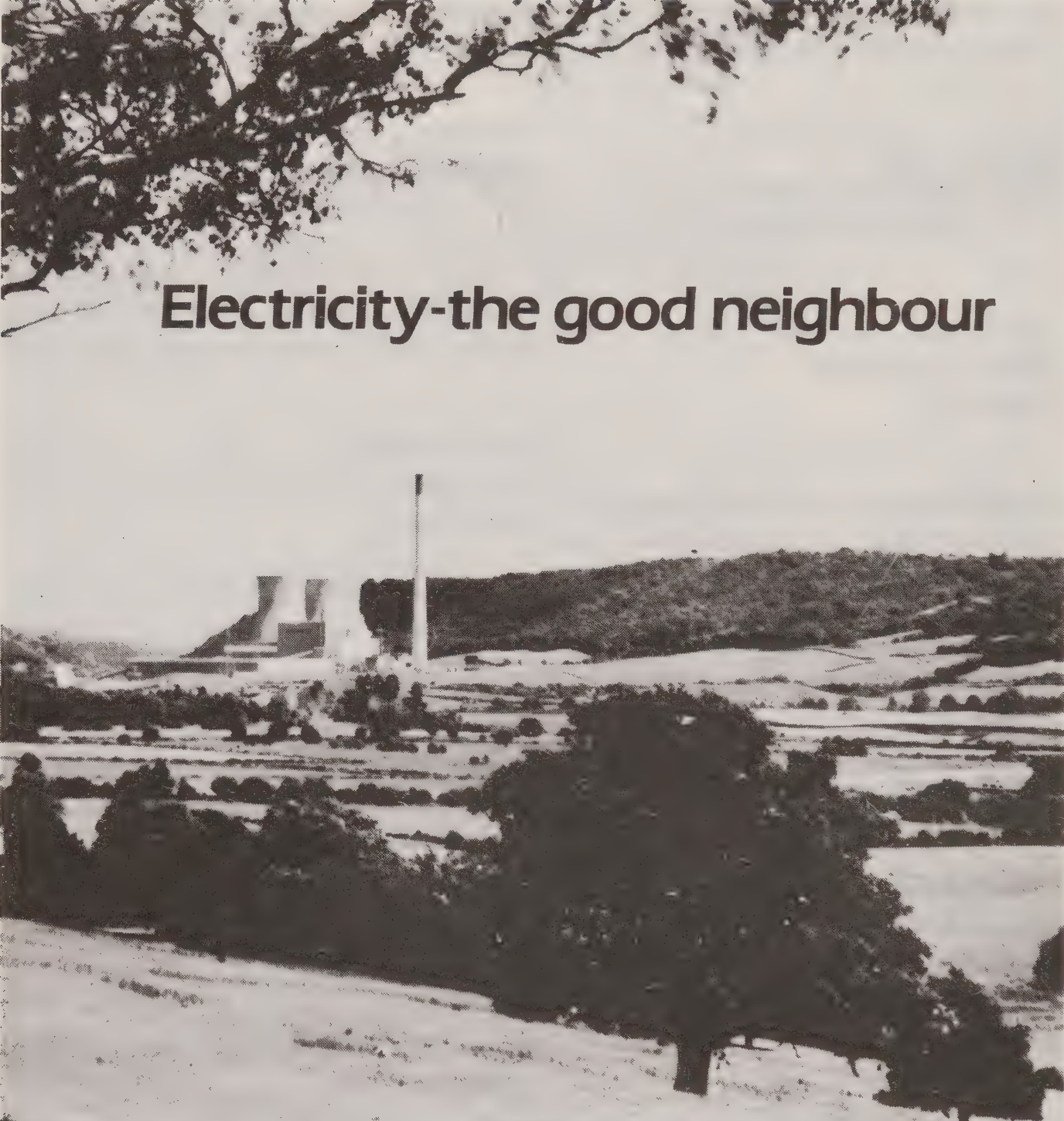
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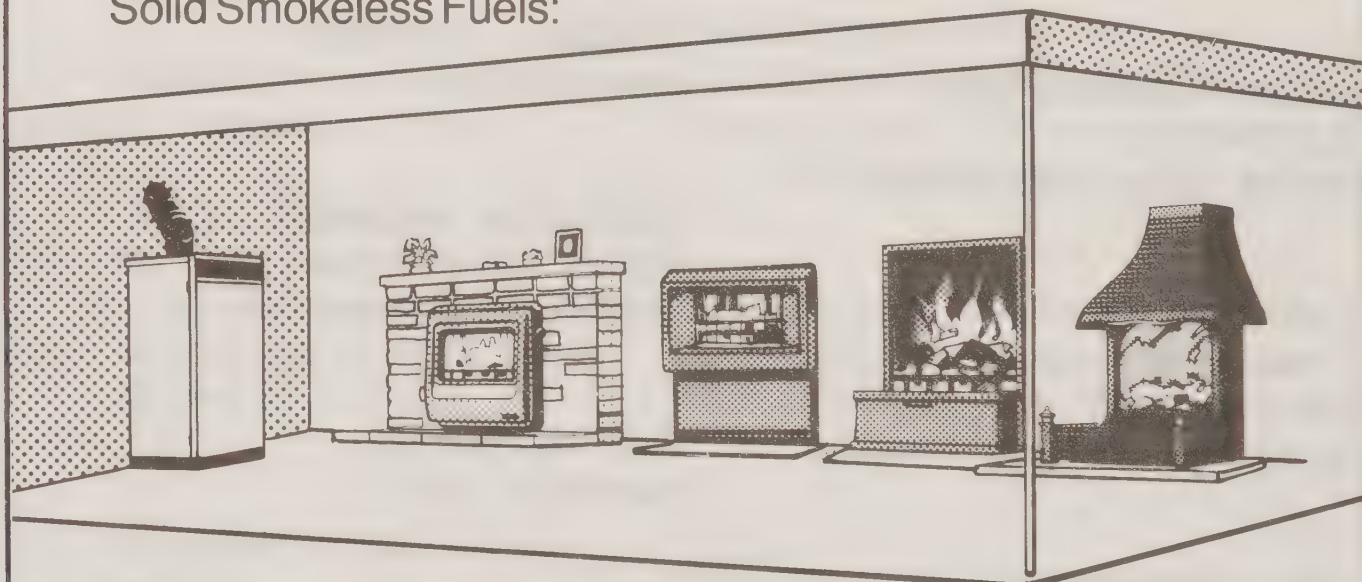
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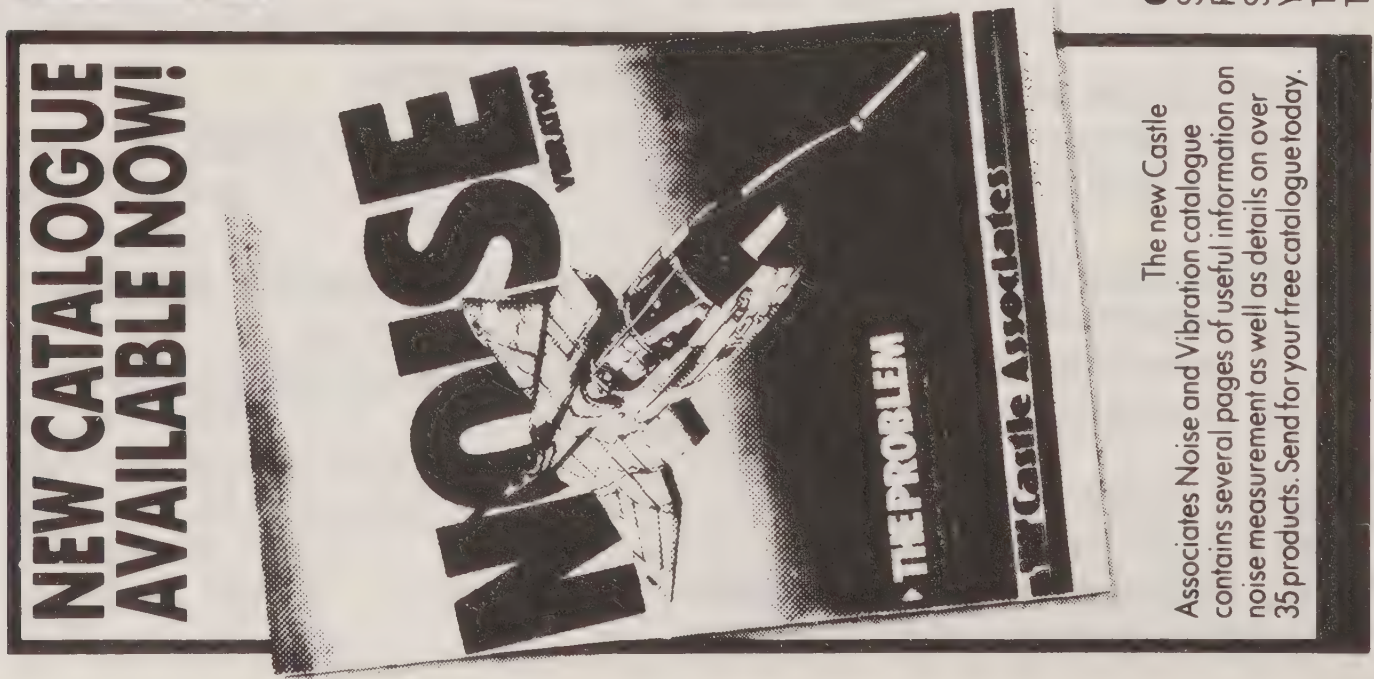
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MEMBERS HANDBOOK 1988-89

CLEAN AIR

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MEMBERS HANDBOOK 1988-89

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I WENT ON A
VISIT TO PLANET
EARTH



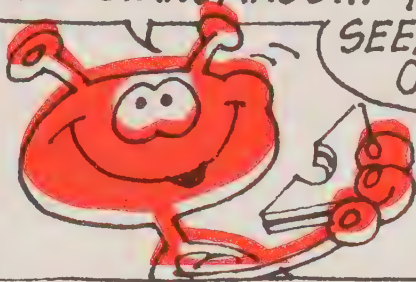
THEY WANTED
ME TO STAY



I ASKED IF IT
WAS SAFE TO EAT



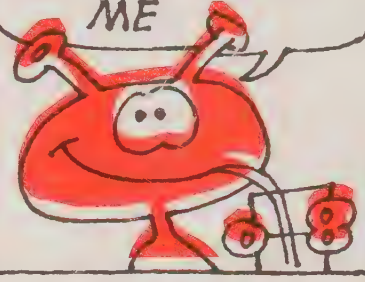
THEY GAVE ME LOTS OF
INFORMATION ON FOOD HYGIENE
AND STANDARDS... THAT
SEEMED
O.K.



I ASKED IF IT
WAS SAFE TO
DRINK



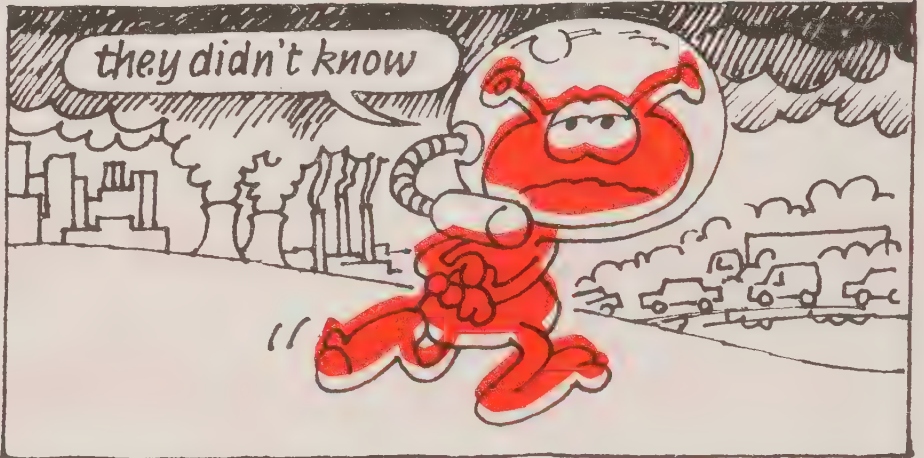
I SAW DAILY REPORTS
ON WATER PURITY
THAT CONVINCED
ME



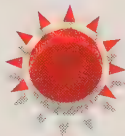
I ASKED IF IT WAS
SAFE TO BREATHE



they didn't know



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NEXT LUNGFULL,
CONTACT —**



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CONTENTS

PART A – NSCA INFORMATION

SECTION 1

REPORTS FOR THE YEAR 1987-88

The National Society for Clean Air	1
Chairman’s Report for 1987-88	2
Accounts for the period 1 April 1987 to 31 March 1988	7

SECTION 2

NSCA STATUTES

Memorandum of Association	13
Articles of Association	15
Bye-Laws	23

SECTION 3

Honorary Officers	27
Past Presidents 1929 to 1987	27
Past Chairmen of Council 1958 to 1988	28
The Council of the Society	29
Standing Committees	31
NSCA Staff	32
Who’s Who 1988-89	33

SECTION 4

DIVISIONAL MEMBERSHIP

Division 1 – Scotland	56
Division 2 – Northern Ireland	56
Division 3 – Northern	57
Division 4 – North West	57
Division 5 – Yorkshire and Humberside	58
Division 6 – West Midlands	59
Divisions 7/8 – East Midlands and Eastern	59
Divisions 9/10 – London & South East and Central Southern	60
Division 11 – South West	62
Division 12 – South and Mid Wales	63

PART B – STATISTICS AND DIRECTORIES

SECTION 5

Smoke Control Areas	64
---------------------	----

SECTION 6

DIRECTORY OF ORGANISATIONS

UK Organisations	71
Overseas Organisations	83

SECTION 7

Guide to Environmental Films and Teaching Aids	87
--	----

SECTION 8

Directory of Consultants	89
--------------------------	----

SECTION 9

TRADE DIRECTORY AND BUYERS GUIDE

Alphabetical Entries	97
Classified Entries	125

ADVERTISERS

Analysis Automation Ltd	124
W.S. Atkins	95
Carter Industrial Products Ltd	130
Casella (London) Ltd	132
Castle Associates Ltd	98
Central Electricity Generating Board	118
Cirrus Research	112
Coalite Group plc	106
Combustion Developments	116
Enviro Technology	ii
Honeywell Control Systems Ltd	12
Hosokawa Mikropul Ltd	102
Peabody Holmes Ltd	122
Quantitech Ltd	108
Revel Engineering (UK) Ltd	114
Solid Smokeless Fuels Federation	96

NATIONAL SOCIETY FOR CLEAN AIR

The Society's origins date back to the Coal Smoke Abatement Society (founded 1899); in the past decade it has considerably widened its interests and activities, and its work now covers the whole field of air pollution control and the problem of noise and its control. The NSCA has national and international standing; its influence and operation embrace industry, local and central government and the general public. It is concerned both with long-term policy questions and urgent current problems. The NSCA is a Founder Member of the worldwide International Union of Air Pollution Prevention Associations (IUAPPA) and the official UK representative on the International Association Against Noise.

THE NSCA's AIM is to secure environmental improvement through the reduction of air pollution, noise and other contaminants, while having due regard for other aspects of the environment. The NSCA advances the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention. The Society is funded by members' subscriptions, donations and monies raised by activities.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities, universities and other educational establishments, corporate bodies representing learned and professional institutions, the fuel industries, and other industrial companies.

PRINCIPAL ACTIVITIES INCLUDE: holding Conferences and Technical Training Workshops. Convening national and regional meetings and exhibitions. Making representations to government, other authorities and agencies and to industry, on all matters relating to air pollution and noise, including: legislation drafting, statutory controls, standards, technical concerns, local and national issues.

PROVISION OF INFORMATION FOR ENVIRONMENTAL EDUCATION The NSCA promotes public education at all levels. The approach is to stimulate interest in the environment by providing information that is accessible, balanced and up to date. The Society has its own press and publishes books, reports, papers, conference and technical proceedings, a range of leaflets on different topics, and the journal *Clean Air* (quarterly). The Society operates an Information Service and Library which handles thousands of requests for information, references and publications every year.

ORGANISATION The elected Council is the Society's governing body. An administrative staff headed by the Secretary General is employed at the Brighton Headquarters. The Society has 12 Divisions throughout the UK which arrange activities and meetings at regional level and consider issues from that perspective. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

POLICY DISCUSSION AND FORMULATION Policy discussion and formulation is initiated by NSCA Divisions and at the annual NSCA Conference as well as within the national Council. Policy details are evolved by the appropriate standing committee(s): Technical + Noise, and Parliamentary and Local Government; a Steering Committee reacts swiftly when urgent response is required. Policy is ratified by the Council.

CHAIRMAN'S REPORT

General Review

To facilitate their publication elsewhere, I have returned to the practice of reporting our progress in 1987/88 on pollution issues and our specialist activities in the **Review** section which concludes this report.

The Evolving Role of the Society

Protection of the environment and the control of pollution are matters of considerable public interest and continue to attract widespread coverage throughout the media.

This has helped to sustain, on an expanding basis, a high level of activity within the Society. Twenty plus years ago our chief preoccupation was with air quality on a local and national scale, although the long-range transport of radioactive dust from nuclear weapons testing was also seen as a matter of major, if separate, concern. Ten years later our activities had widened to include the problems of acid rain and its transfer over national boundaries. Today, and post Chernobyl, our interests are still wider as it becomes clear that additional problems such as the depletion of stratospheric ozone and "*the greenhouse warming effect*" require global solutions. Thus old problems remain while new ones evolve and their control becomes ever more complex as systems have to be integrated to ensure that contaminants are dealt with according to the best practicable environmental option. After a lengthy period of apparent indifference to the needs of air

pollution control, it is becoming clear that at long last the Government has undergone a major change of heart. The unification (in April last year) of the Pollution Inspectorates in England and Wales in line with the system already prevailing in Scotland, to form HM Inspectorate of Pollution was a major step forward. In turn, this has led the Council of the Society once again to consider the question of the Society's ever evolving role, and whether this should be reflected in a change of name. We went part of the way in 1981 by changing the Memorandum of Association to broaden the scope of the Society's activities *having regard for the implications for other aspects of the environment*. Clearly, such a change needs careful thought; one suggestion is that, as the next step, we could become 'The National Society for Clean Air and Environmental Protection'. Keeping to the old adage of "*making haste slowly*" we have formed a working party to look at the issue and to report to Council with recommendations.

National Attitudes

Again over the years and not without some justification the UK has acquired the reputation among our neighbours bordering the North Sea of being the "*dirty man*" of Europe. In particular we have been taken to task for Governmental tardiness in introducing effective controls on acid emissions from large industrial plant and vehicles. After a decade of steadily increasing pressure, I am pleased

to note that in June the Government finally capitulated on both fronts, in accepting the provisions of the EC Directive on Large Combustion Plant and agreeing the emissions limits on petrol engine vehicles: a further welcome change of heart in addition to that regarding the Pollution Inspectorate which I have already mentioned. The task now will be to ensure that we meet our national obligations on schedule. In passing, it is interesting to reflect that signing the Treaty of Rome in 1972 has proved to be as momentous a development in the control of air pollution as the passing of the Clean Air Act in 1956. With hindsight one can only regret that having led the world in smoke control, the UK should then have lost the initiative.

Liaison With Other Bodies

Turning to our relationships with other bodies, the Society continues to enjoy wide representation in the Investigation of Air Pollution Standing Conference (IAPSC). We continue to be represented on the Parliamentary and Scientific Committee and on the Council for Environmental Conservation (CoEnCo) and its committees, and on the environmental/public issues panels of the National Radiological Protection Board and the Radioactive Waste Management Advisory Committee. We are also members of the Energy Industry Club and the Industrial Fuel Economy Group. We continue to provide secretarial services for the Environmental Protection Equipment Manufacturers Association (EPEMA) and the International Committee on Industrial Chimneys (CICIND).

Further strengthening the list of national bodies which contribute to the formulation of Society policy I am delighted to

welcome the Director of the UK Centre for Economic and Environmental Development (UK CEED), David Cope, as a member of Council.

IUAPPA

As you will know, the Society is a founder member of the International Union of Air Pollution Prevention Associations (IUAPPA), for which we also provide the Secretariat and publish its Newsletter and Handbook. As reported elsewhere, this year we have published the first edition of a major new work — *Clean Air Around The World* — which covers the law and practice of air pollution control in fourteen countries on five continents. The fourteen sections were contributed by member associations and brought together in a single volume under the editorial guidance of our immediate Past Chairman of Council, Ivor Barker, and his wife Joan. IUAPPA continues to grow and now comprises twenty-one members plus a number of observers, representing in all thirty-one countries. Through its membership of the International Union of Technical Associations (UITA) the Union enjoys consultancy status with many United Nations organisations and other international bodies. It also keeps in touch with the Commission of the European Communities (CEC) and the Organisation for Economic Co-operation and Development (OECD). As the Society's representative I attended the Annual Meeting of the IUAPPA Executive in Dallas in June. Items on the agenda included the arrangements for the 8th, 9th and 10th World Congresses to be held at The Hague in September 1989, Montreal in 1992 and Helsinki in 1995 respectively. The meeting afforded an excellent opportunity to expand our international contacts.

AICB

As the UK member of the Association Internationale Contre le Bruit (AICB), the Society has been represented on its Governing Body for a number of years. The fifteenth (bi-annual) Congress of the Association was held at Lake Balaton, Hungary, in May, when the Society was represented by Mr. George Vulkan. As recorded in the Review, I am delighted to say that the AICB has accepted our offer to host the International Congress to be held in Brighton in June 1990. This will be a three day event and the Call for Papers has just been published.

Divisional Activities

With regard to our own affairs, I am pleased to report that the high level of activity which has become the norm for most of the Divisions in recent years has continued. I have been fortunate to be able to attend the Annual General Meetings of the Northern, South and Mid-Wales, and Yorkshire & Humberside Divisions, all of which were extremely well attended. I much regret that due to an unavoidable clash of dates I could not attend other meetings which I know attracted similar levels of support, underlining once again the vigour of the Society. Like my predecessors, I would like to express my deepest thanks to the Divisional Honorary Secretaries whose hard work pays such dividends. Two specially organised meetings call for particular mention. Firstly, the London & South East and Central Southern Divisions seminar on *Radiation Monitoring* in January which is reported separately, and, secondly, the North West Division *Hazards Training Workshop* held in Manchester in June. This very practically orientated meeting ranged across the entire field of major industrial

hazards and marked a new departure in Divisional activities, drawing a full attendance. I hope that its success will encourage others to follow.

The Standing Committees

If the input from our Divisions represents one fundamental strength of the Society, the reputation of our Standing Committees is another. We are extremely fortunate in having the voluntary services of a comprehensive cross-section of the nation's experts embracing all disciplines. Committee work of this sort takes time and effort, and I would like to take this opportunity of thanking all members of Council and all the members of Committees for attending the meetings and, not infrequently, taking the trouble to put their thoughts in writing. And I know that all members of Council will wish me to make a particular point of thanking the co-opted members of the Committees whose specialist advice is critical to policy making. I should also like to thank those who have served on the Acid Rain and Civil Nuclear Power Working Groups.

While the Review section covers the work of the Technical, Parliamentary & Local Government and Noise Committees, the Conference & Promotions Committee and the Finance & Administration Committee have been equally active behind the scenes. In organising the Society's Annual Conference, Spring Workshop and other meetings and in formulating and implementing publications policy, the Conference & Promotions Committee is now directly responsible for generating almost 40% of the Society's gross revenue. The Committee has received a welcome boost in numbers during the past twelve months, but whether of long standing or recently joined, I am most

grateful to all members for their successful efforts.

Equally, the Finance & Administration Committee has been duly concerned with the continuing problems of budget and finance, and Secretariat matters including staffing changes and the maintenance of operations during the major building and repair work on the premises. The latter had to be seen to be believed, as the outer walls of the offices were stripped to the steel frame of the building while work continued behind plywood screens. However, the offices have now been fully reinstated and, I am pleased to say, with satisfactory recompense by our landlords.

DoE Grant

You will see from the balance sheet that without the Special Grant from the Department of the Environment we would have been in deficit on the income and expenditure account for the year. We are now in the third and final year of the Grant and it is clear that unless we are successful with a further application or we are able to bolster our income in other ways, then we shall have to consider whether we can sustain our future programme at the same high level as today. In particular, the DoE Grant has provided 50% of the cost of the educational and information services provided by the Society. Council is clear that the maintenance of these services remains a first priority, and I trust that the DoE will view our new application in the same light. Nevertheless, we are most grateful for the support received over the past three years which has helped us considerably.

Personnel

With the restructuring of the staff com-

pleted last October, we were looking forward to a period of stability as the new team got into their stride. Thus, Penny Gilbert's tragic death in March came as a great blow. However, Tim Brown has done a splendid job as Acting Editor pending the arrival of our new Editor, Miss Loveday Murley, at the beginning of September. She joins the staff from a similar appointment with the International Organisation of Consumers Unions which is based at The Hague. Other staff changes include the appointment of Mrs Wendy Messer as Secretary to the Secretary General and Administration Manager (whilst Mrs Vanessa Draper is on maternity leave) and Miss Mary Stevens who is our new Assistant Information Officer.

The President

We are indeed favoured in having Lord Nathan as our President. His support has been outstanding, both in his contributions to Conference and the Workshop, his willingness to press the Society's case in interviews with the Press, TV and radio, and, not least, in his advice to Council. We are most grateful.

We are equally fortunate in the quality of our Vice-Presidents and I am delighted to report that Sir Hugh Rossi MP, Chairman of the Select Committee on the Environment, Simon Hughes MP, and Gareth Wardell MP have agreed to accept a further term of office.

90th Birthday Reception

Following a number of suggestions that the Society should commemorate its ninetieth birthday next year, we have accepted the kind offer of the President that he should host a buffet reception to be held on the River Terrace of the House of Lords on Monday 15 May, 1989. On

current plans there should just about be sufficient space for all sections of the Society to be represented, to enable us to say *thank you* to those who give us active support as well as leave room to welcome others to whom we might look for future assistance. The Secretary General will be asking the Divisional Honorary Secretaries to help him draw up the invitation list.

Concluding Remarks

In concluding my report, I very much regret the passing of so many members whose names have been at the forefront of our activities over the last forty or so years. These include Stanley Cohen, T. Henry Turner, Ronald Shapter and Philip Sharp. Their obituaries have been reported in *Clean Air*. They will all be greatly missed and I would like to take this opportunity to extend our deepest sympathy to the loves ones they have left behind.

On behalf of members of the Society, I should like to thank the Secretary General and all the members of our headquarters staff for their eminently successful and loyal efforts on our behalf during a remarkably difficult year. Their performance has been quite splendid.

In conclusion, I would repeat that despite another year of unremitting activity, there is still a long way to go in achieving our goals. If, at one end of the scale, we are now at the point of requiring a World Treaty on the protection of the atmosphere, the ecosphere and the biosphere, at the other extreme we remain rightly concerned about pollution abatement as it affects us day by day.

For me personally, it has been a stimulating and rewarding year and I will long remember the support I have enjoyed from the Officers of the Society. In particular I would mention our Secretary General, John Langston, our Senior Deputy Chairman, Bill Snow, and our Honorary Treasurer, Brian Edwick. I have worked closely with all of them during this period of problems for us and they have been towers of strength. It has been an honour and a privilege to occupy the office of Chairman and I hand over to Bill Snow in the sure knowledge that he will be pursuing, as he always does, the tasks in hand with great ability, with vigour and with the benefit of his wide in depth experience of environmental matters. I wish him every success in his year of office.

K.S. Dunn
Chairman

THE NATIONAL SOCIETY FOR CLEAN AIR

(Company Limited by Guarantee – Incorporated 1st January 1958)

BALANCE SHEET

31st MARCH 1988

	Notes	£	1988	£	£	1987	£
TANGIBLE FIXED ASSETS							
Office furniture and equipment	2 & 3						
Cost or valuation			28,868			25,081	
Accumulated depreciation			(22,485)			(18,788)	
			6,383			6,293	
Library Books at nominal value			100			100	
			6,483			6,393	
CURRENT ASSETS							
Sundry debtors		5,711			3,995		
Prepayments		187			2,275		
		5,898			6,270		
Stock of Publications	2	3,080			2,980		
Quoted investments	4	32,452			32,452		
Bank Balance		104,314			83,803		
Cash in hand		139			187		
Funds held by Divisions		1,337			905		
		147,220			126,597		
CREDITORS							
Amounts falling due within one year:							
Sundry creditors and accrued expenses		(17,979)			(11,660)		
NET CURRENT ASSETS			129,241			114,937	
TOTAL ASSETS LESS CURRENT LIABILITIES			<u>£135,724</u>			<u>£121,330</u>	
GENERAL FUND							
Balance at start of year			82,752			67,557	
Surplus for the year			14,394			16,234	
Loss of disposal of quoted investments			—			(1,039)	
Balance at end of year			97,146			82,752	
PREMISES FUND			38,578			38,578	
			<u>£135,724</u>			<u>£121,330</u>	

The accounts were approved by the Council of the Society on 8th September 1988 and signed on its behalf by:

Air Commodore J. Langston – *Secretary General*

B.H. Edwick – *Honorary Treasurer*

8 — Section 1

INCOME AND EXPENDITURE ACCOUNT

for the year ended

31st MARCH 1988

INCOME	Notes	1988		1987	
		£	£	£	£
Subscriptions and Donations	2		58,680		57,103
Conference, Brighton, October 1987			31,767		—
Conference, Blackpool, October 1986			—		29,385
Workshop, Oxford, March 1988			10,557		—
Workshop, Manchester, March 1987			—		5,538
Symposium, London, January 1988			3,848		—
Conference — Acid Rain, September 1986			—		19,716
Sales of Publications			26,455		24,450
Advertising revenue:					
Clean Air		1,864		2,459	
Members Handbook	7	1,227		—	
			3,091		2,459
Investment Income: Dividends/Sale of Rights		5,668		5,947	
Interest		7,232		6,321	
			12,900		12,268
Contributions from IUAPPA/CICIND			21,086		15,152
Grant from Department of the Environment	5		32,606		32,490
			<u>200,990</u>		<u>198,561</u>
EXPENDITURE					
Staff Costs:					
Salaries and Wages		76,915		67,188	
Social Security Costs		7,136		6,156	
		<u>84,051</u>		<u>73,344</u>	
Other Costs:					
Sub Contract Labour		11,985		10,612	
Rent, Rates, Light, Heat	6	11,871		11,363	
Insurance, travel, cleaning, general expenses		17,857		17,029	
Audit Fee, financial advice		1,100		757	
Depreciation — office furniture/equipment	2 & 3	3,697		2,913	
Stationery and Supplies		3,768		2,279	
Provision for doubtful debts		65		(1)	
Irrecoverable VAT input tax	8	1,860		2,386	
		<u>136,254</u>		<u>120,682</u>	
“Clean Air” and Members Handbook	7	8,481		5,276	
Information and Publicity Services		6,587		3,886	
Costs of Publications		10,242		8,927	
Divisional Expenses		1,068		1,556	
Research Grants		840		—	
		<u>27,218</u>		<u>19,645</u>	
Conference, Brighton, October 1987		13,709		—	
Conference, Blackpool, October 1986		—		13,660	
Workshop, Oxford, March 1988		6,808		(105)	
Workshop, Manchester, March 1987		—		3,619	
Symposium, London, January 1988		2,607		—	
Conference, Acid Rain, September 1986		—		9,826	
		<u>23,124</u>		<u>27,000</u>	
			(186,596)		(167,327)
Surplus for the year			14,394		31,234
Transfer to Premises Fund			—		(15,000)
Transfer to General Fund			<u>£14,394</u>		<u>£16,234</u>

The notes on pages 10 and 11 form part of these accounts.

THE NATIONAL SOCIETY FOR CLEAN AIR

STATEMENT OF SOURCE AND APPLICATION OF FUNDS for the year ended 31st MARCH 1988

	1988	1987
	£	£
SOURCE OF FUNDS		
Surplus for the year	14,394	31,234
Adjustment for item not involving the movement of funds:		
Depreciation	3,697	2,913
	<u>£18,091</u>	<u>£34,147</u>
APPLICATION OF FUNDS		
Loss on disposal of quoted investments	—	1,039
Purchase of tangible fixed assets	3,787	4,195
Change in net current assets:		
(Decrease) in debtors & prepayments	(372)	(7,391)
Increase (decrease) in stock of publications	100	(2,380)
(Decrease) in quoted investments	—	(1,132)
Increase (decrease) in funds held by divisions	432	(832)
(Increase) decrease in creditors & accruals	(6,319)	2,613
Increase in bank and cash balances	20,463	38,035
TOTAL FUNDS APPLIED	<u>£18,091</u>	<u>£34,147</u>

The notes on pages 10 and 11 form part of these accounts.

NOTES TO THE ACCOUNTS

for the year ended

31st MARCH 1988

1. LIABILITY OF MEMBERS

In accordance with Clause 8 of the Memorandum of Association every member of the Society undertakes to contribute, in the event of the Society being wound up, such amount as may be required not exceeding 25 pence each.

2. ACCOUNTING POLICIES

- a) Basis of accounting
- The accounts are prepared in accordance with the historical cost convention.
- b) Subscriptions
- Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate.
- c) Depreciation of tangible fixed assets
- The cost of items of office furniture and equipment is written off by equal annual instalments over five years except electronic equipment which is written off over three years.
- d) Stock of publications
- Stock of publications are included at the lower of the Secretary General's valuation and net realisable value.

3. OFFICE FURNITURE AND EQUIPMENT

	Cost or valuation	Accumulated depreciation
	£	£
At 1.4.1987	25,081	18,788
Additions	3,787	3,697
At 31.3.1988	<u>£28,868</u>	<u>£22,485</u>

Records are not available which show the original cost of items of furniture and equipment which were valued by the Secretary General as at 1.4.1972 at £1,910 and were included in the accounts at this figure, which is now fully depreciated. Subsequent additions, for which records are available, are included at cost.

4. QUOTED INVESTMENTS

	Cost		Market value	
	1988	1987	1988	1987
	£	£	£	£
Fixed interest stocks	8,172	8,172	8,781	8,839
Ordinary shares	24,280	24,280	92,487	100,833
	<u>£32,452</u>	<u>£32,452</u>	<u>£101,268</u>	<u>£109,672</u>

5. GRANT FROM THE DEPARTMENT OF THE ENVIRONMENT

For the period 1987/88 the Society received a Special Grant from the Department of the Environment towards the cost of the Society's work of producing educational and teaching materials, undertaking research and running an advisory and information service on air pollution and noise.

6. PREMISES

During the year the Society's landlords commenced extensive building and remedial work on the entire building. The negotiated reductions in rent and rates will be accounted for in the financial year 1988/89.

7. PUBLICATIONS

For the year 1986/87 the Members Handbook was not published. The 1987 edition of this publication has been accounted for in the financial year 1987/88.

8. **IRRECOVERABLE VAT INPUT TAX**

The Society has been advised that it can only recover part of the VAT input tax paid. The charge of £1860 is the amount of irrecoverable VAT written off in 1987/88.

9. **TAXATION**

As a registered charity the Society is not liable to tax on its income.

**REPORT OF THE AUDITORS TO THE MEMBERS OF
THE NATIONAL SOCIETY FOR CLEAN AIR**

We have audited the financial statements set out on pages 7 to 11 in accordance with approved Auditing Standards.

In our opinion the financial statements, which have been prepared under the historical cost convention, give a true and fair view of the state of affairs of the Society at 31st March 1988 and of its surplus of income over expenditure for the year ended on that date, and comply with the Companies Act 1985.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

The Grove
Pipers Lane
HARPENDEN
Herts. AL5 1AH

14th September 1988

AIR CLEANERS TO IMPROVE YOUR ENVIRONMENT



A Honeywell electronic air cleaner will make your environment more pleasant.

It will remove up to 95% of smoke, dust and other pollutants by actually **cleaning** the air — not just sucking it out or circulating it.

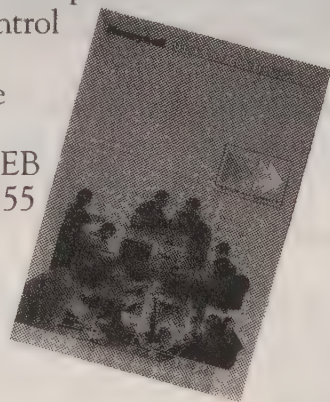
Your heating costs will be reduced because your premises will need less outdoor air and you'll spend less on cleaning and redecoration.

Honeywell electronic air cleaners will do all this reliably and economically,

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MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1981
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL
MEMORANDUM OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981

1. The name of the Company (hereinafter called “the Society”) is “The National Society for Clean Air”.
2. The registered office of the Society will be situate in England.
3. (1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.
(2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.
(B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.
(C) To encourage the adoption of methods to reduce and prevent pollution.
(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.
(E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society’s objects.
(F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society’s purposes or calculated to further its objects.
(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.
(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.
(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the

creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.

(M) To take all such other steps as will further the attainment of the above objects or any of them.

PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.

PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.

PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary of State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceed-

ing 5s(25p).

9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolutions on 5 October 1981, 1 October 1984 and 27 October 1986.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.
Words importing the masculine gender only shall include the feminine gender and vice versa and
Words importing persons shall include corporations.
Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Society for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership:

Individual Members

(c) (i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On attainment of the age of 65 or retirement from salaried employment at the age of 60, whichever shall be the earlier, Individual Members may, at the discretion of the Council, retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-laws of the Society.

Local Authority Members

(d) (i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than five Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation *Local Authority* shall be deemed to include *Health Authorities* and *Water Authorities* or such other like authorities as the Council shall from time to time admit for membership.

Corporate Members

(e) (i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but if it desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

Sustaining Members

(f) Any member who subscribes not less than the sum as prescribed in the Bye-laws for this class of membership shall be eligible for admission as a Sustaining Member.

Honorary Members

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

Student Members

(h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

Application for Membership

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

Resignation of Members

- (j) (i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.
- (ii) The Council shall have the power to remove any member:
 - (a) whose annual subscription has remained unpaid for two successive years, or
 - (b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or
 - (c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

Annual Subscriptions

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETING

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings other than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental omissions to give notice of a meeting to, or the non-receipt of such notice by, any

18 – Section 2

person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:

(a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.

(b) Appointing Auditors and fixing their remuneration.

(c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if

any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a single term of three years

(c) Vice-Presidents shall not exceed nine in number nor more than three be elected annually.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term *National or similar organisation* shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:

- (a) If he ceased to be a member or a Representative of a member of the Society;
- (b) If by notice in writing to the Society he resigns his office;
- (c) If a receiving order is made against him or he makes any arrangement or composition with his creditors;
- (d) If he becomes of unsound mind;
- (e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
- (f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36.(i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation of the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before

the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

- (a) As to entrance fees (if any) payable in respect of membership of the Society.
 - (b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
 - (c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
 - (d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
 - (e) As to the manner in which the Elections of Officers and Council members shall be conducted.
 - (f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.
- (ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.
- (iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37.(i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In cases of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be

22 – Section 2

present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provisions of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Ordinary Resolution dated the 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980, 5 October 1981, 18 October 1982, 31 October 1983, 1 October 1984, 14 October 1985, 27 October 1986 and 24 October 1987.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

(i) The annual subscription payable by an Individual Member shall be not less than £11.50. On attainment of the age of 65 or retirement from salaried employment at the age of 60, whichever shall be the earlier on payment of the sum of Twenty Three Pounds, Individual Members may, at the discretion of the Council, retain their membership of the Society in perpetuity, but always subject to the Council's right of removal.

(ii) Individual Members may on payment of not less than Two Hundred and Thirty Pounds become Life Members of the Society.

(b) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£158.00
100,001 to 250,000	£192.00
250,001 to 500,000	£234.00
500,001 to 1,000,000	£306.00
For each additional 500,000 or part thereof –	£30.00

24 – Section 2

- (c) Corporate Members and unincorporated bodies appointed in accordance with Article 4(e)(ii). The Annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:
- (i) Small local civic societies, colleges, schools and similar organisations – £20.00
 - (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms – £112.00
 - (iii) Industrial organisations – £158.00
- (d) **Sustaining Members**
The annual subscription for Sustaining Members shall be not less than £200.00.
- (e) **Membership – Special Cases**
The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3(a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) Corporate Members

- (i) Corporate Members elected to membership under Bye-law 2(c)(i) shall each be entitled to appoint one representative.
- (ii) Corporate Members elected to membership under Bye-law 2(c)(ii) shall each be entitled to appoint three representatives.
- (iii) Corporate Members elected to membership under Bye-law 2(c)(iii) shall each be entitled to appoint five representatives.
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as Officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members Handbook of the Society;
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. **Scotland**
2. **Northern Ireland**
3. **Northern:** Cleveland, Cumbria (in part, only – Allerdale District Council, City of Carlisle and Eden District Council) Durham, Northumberland, Tyne and Wear.
4. **North West:** Cheshire; Clwydd; Cumbria (in part, only – Barrow-in-Furness Borough Council, Copeland District Council and South Lakeland District Council;), Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. **Yorkshire and Humberside:** Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. **West Midlands:** Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. **East Midlands:** Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.

8. **Eastern:** Essex, Norfolk, Suffolk.
 9. **London and South East:** East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
 10. **Central Southern:** Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
 11. **South West:** Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
 12. **South and Mid Wales:** Wales except for Clwyd and Gwynedd.
- (b) Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.
 - (c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.
 - (d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

- 6(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.
- (b) Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.
- (c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

- 7(a) The business of the Society shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.
- (b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen and the following Committees:
 - (i) Finance and Administration
 - (ii) Conference and Promotions
 - (iii) Technical
 - (iv) Parliamentary and Local Government
 - (v) Noise
 - (vi) Any other Committee considered by the Council to be necessary.
- (c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:
 1. To implement Council policy
 2. To ensure that the programme of the Standing Committees are comprehensive and appropriately interlocking
 3. To formulate proposals for policy changes
 4. To act on behalf of the Council in cases of urgency
 5. To report to the next following meeting of Council any action taken on its behalf.
- (d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.
- (e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the office of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President

THE RT HON LORD NATHAN, MA, FSA, FRSA, FRGS

Immediate Past President

COUNCILLOR L. POOLE, BEM, JP

Vice Presidents

KEN COLLINS, MEP
THE RT HON THE EARL OF CRANBROOK
FRANK HAYNES, MP
SIMON HUGHES, MP
SIR HUGH ROSSI, MP
MADRON R. SELIGMAN, MEP, BA
GARETH WARDELL, MP
PROFESSOR DAVID G. T. WILLIAMS

Honorary Treasurer

B.H. EDWICK, TEng(CEI)

Chairman of Council

W. F. SNOW, MIEH, MIWM

Deputy Chairmen

DR. F. E. SHEPHARD
BSc, PhD, FRIC, CChem, FRSC, CEng, FIGase
A. J. REES

Immediate Past Chairman

K. S. DUNN, CEng, MInstE

PAST PRESIDENTS 1929 TO 1987

October 1929 to November 1943
Dr. H.A. Des Voeux
November 1943 to March 1946
Mr. Will Melland
March 1946 to September 1948
Sir George Elliston
September 1948 to September 1949
Lord Simon of Wythenshawe
September 1949 to September 1951
Dame Vera Laughton Mathews, DBE
September 1951 to October 1953
Alderman Professor F.E. Tylecote, CBE
October 1953 to October 1956
Sir Ernest Smith, CBE
October 1956 to December 1958
Dr. R. Lessing, CBE

December 1958 to March 1961
Sir Hugh Beaver, KBE
March 1961 to April 1963
The Rt. Hon. Lord Cohen of Birkenhead
April 1963 to May 1965
Dr. Albert Parker, CBE
May 1965 to May 1967
Sir Alan Wilson, FRS
May 1967 to April 1969
Sir John Charrington
April 1969 to June 1971
Sir Kenneth Hutchison, CBE, FRS
June 1971 to June 1973
Mr. Stanley E. Cohen, CBE
June 1973 to July 1975
Sir John Greenborough, KBE
July 1975 to July 1977
Professor P.J. Lawther, CBE
July 1977 to July 1979
Lord Flowers, FRS
July 1979 to October 1981
Lord Ezra, MBE
October 1981 to October 1983
Naomi E.S. Sargent
October 1983 to October 1985
Professor D.G.T. Williams
October 1985 to October 1987
Councillor L. Poole

PAST CHAIRMEN OF COUNCIL 1958 TO 1988

January 1958 to December 1958
Dr. J.S.G. Burnett
December 1958 to April 1962
Mr. J. Innes
April 1962 to April 1964
Dr. J.L. Burn
April 1964 to May 1967
Mr. J. Goodfellow
May 1967 to April 1969
Mr. A.C. Saword
April 1969 to September 1971
Dr. W.C. Turner
September 1971 to July 1973
Mr. S. Cayton MBE
July 1973 to July 1974
Mr. W. Combey
July 1974 to July 1975
Miss M. George CBE
July 1975 to July 1976
Mr. J. Clancey OBE, BEM
July 1976 to July 1977
Mr. P. Draper
July 1977 to July 1978
Mr. T.H. Iddison MBE
July 1978 to July 1979
Professor R.S. Scorer

July 1979 to July 1980
 Mr. H.I. Fuller
July 1980 to October 1981
 Mr. A.J. Clarke
October 1981 to October 1982
 Mr. H. Giblin
October 1982 to October 1983
 Mr. W.B. Twyford
October 1983 to October 1984
 Councillor L. Poole BEM, JP
October 1984 to October 1985
 Mr. M. Beaumont
October 1985 to October 1986
 Mr. R.W.C. Wheatley
October 1986 to October 1987
 Mr. I.W. Barker
October 1987 to October 1988
 Mr. K.S. Dunn

THE COUNCIL OF THE SOCIETY

APPOINTED REPRESENTATIVES OF NATIONAL BODIES

Association of Industrial Filter and Separator
 Manufacturers
 Mr. D. Morgan-Jones
 British Coal
 Mr. R.W.C. Wheatley
 British Gas
 Dr. F.E. Shephard
 British Steel Corporation
 Mr. D.A. Harrison
 Centre for Economic and Environmental Development
 Mr. D.R. Cope
 Central Electricity Generating Board
 Mr. G. Barrett
 Environmental Protection Equipment Manufacturers Association
 Mr. K.S. Dunn
 Filtration Society, The
 Dr. R.W.K. Allen
 Institute of Petroleum, The
 Mr. J.H. Boddy
 Institution of Environmental Health Officers, The
 Mr. R.W. Lander
 Institution of Gas Engineers, The
 Dr. F.E. Shephard
 Low Temperature Coal Distillers Association
 Mr. N.M. Ross
 Solid Smokeless Fuels Federation
 Mr. I. MacKay
 Womens Solid Fuel Council
 Mrs. G.E. Naylor

ELECTED REPRESENTATIVES FROM NSCA DIVISIONS

SCOTLAND - Division 1
3 Representatives
Mr. E. Gibson

NORTHERN IRELAND - Division 2
1 Representative
Mr. O. Hetherington

NORTHERN - Division 3
3 Representatives
Cllr. L. Poole - Mr. W.C.B. Robson
Cllr. T.W. Yellowley

NORTH WEST - Division 4
6 Representatives
Mr. M. Dickinson - Mr. K.G. Kaufman
Mr. I.R. Liversidge - Mr. J.B. Simpson
Mr. W.F. Snow - Mr. A.G. Ward

YORKSHIRE AND HUMBERSIDE - Division 5
4 Representatives
Cllr. J.M. Bramley - Mr. K. Kelly
Cllr. G.M. McDade - Mr. M. Smith

WEST MIDLANDS - Division 6
3 Representatives
Cllr. J.R. Griffiths - Cllr. T. Short
Mr. T. Townsend

EAST MIDLANDS - Division 7
5 Representatives
Cllr. R.S. Chamberlain - Mr. K.R. Enderby
Mr. F. Haynes MP - Cllr. Mrs. E.J. Inglefield
Cllr. R.F. Ogilvie

LONDON AND SOUTH EAST - Division 9
9 Representatives
Dr. D. Ball - Mr. J.J. Beagle - Mr. M. Beaumont
Mr. J. Clancey - Mr. P. Cooney - Mrs. E.M.L. Naylor
Professor R.S. Scorer - Mr. J. Wade

CENTRAL SOUTHERN - Division 10
3 Representatives
Dr. R.A. Barnes - Mr. P. Legge - Mr. A.J. Rees

SOUTH WEST - Division 11
3 Representatives
Mr. H. Dawson - Mr. H. Nowell - Mr. B.H. Young

SOUTH AND MID WALES - Division 12
4 Representatives
Cllr. J.R.P. Evans - Mr. T. Jones
Cllr. H.I. Thomas - Mr. R. West

STANDING COMMITTEES

The President, Hon. Treasurer, Chairman, Deputy Chairmen,
Immediate Past Chairman and Immediate Past President
are all ex-officio members of all five
Standing Committees.

Finance and Administration Committee

Mr. M. Beaumont – Mr. M. Dickinson – Cllr. J.R.P. Evans
Mr. I.R. Liversidge – Cllr. G.M. McDade
Mr. H.R. Nowell – Cllr. T.W. Yellowley
Chairman, Conference and Promotions Committee –
Mr. A.J. Rees

Chairman, Noise Committee – Mr. H. Dawson
Chairman, Parliamentary and Local Government Committee –
Mr. R.W. Lander
Chairman, Technical Committee – to be elected
Co-opted specialist
Mr. R.W.C. Wheatley

Conference and Promotions Committee

Cllr. J.M. Bramley – Cllr. R.S. Chamberlain
Mr. K.R. Enderby – Mr. E. Gibson – Mrs. E.M.L. Naylor
Cllr. R.P. Ogilvie – Mr. M. Smith – Cllr. H.I. Thomas
Co-opted specialists
Mr. C.J. Brooks – Mr. P. Cooney

Noise Committee

Mr. G.W. Barrett – Mr. J.J. Beagle – Mr. P. Cooney
Mr. H. Dawson – Cllr. Mrs. E.J. Inglefield
Mr. K.G. Kaufman – Mr. P. Legge
Mr. T. Townsend – Mr. J. Wade
Mr. A.G. Ward – Mr. R.W.C. Wheatley
Co-opted specialists
Mrs. I. Brain – Mr. J. Evans – Mr. A.J. Gibbon
Mr. S. Rintoul – Mr. D.R. Romaine
Mr. S. Turner – Dr. W.A. Utley – Mr. G.H. Vulcan

Parliamentary and Local Government Committee

Cllr. J. Griffiths – Cllr. Mrs. E.J. Inglefield
Mr. T. Jones – Mr. K. Kelly – Mr. R.W. Lander
Mr. I. MacKay – Mr. W.C.B. Robson – Mr. N.M. Ross
Cllr. T.E. Short – Mr. R.W.C. Wheatley – Mr. B.N. Young

Technical Committee

Dr. R.W.K. Allen – Dr. D. Ball – Dr. R.A. Barnes
Mr. G.W. Barrett – Mr. J.J. Beagle – Mr. J.H. Boddy
Cllr. J.M. Bramley – Mr. P. Cooney – Mr. D. Cope
Mr. H. Dawson – Mr. P. Legge – Professor R.S. Scorer
Mr. J.B. Simpson – Mr. T. Townsend – Mr. R. West
Co-opted specialists
Dr. S.R. Craxford – Dr. M. Fox – Dr. D. Laxen – Mr. B. Lees
Dr. C. Schofield – Mr. L. Stuffins – Dr. W.C. Turner
Mr. R.E. Waller – Mr. R.W.C. Wheatley – Dr. M. Williams

STAFF

Secretary General

Air Commodore John Langston, CBE, FBIM

Administration, Accounts

Production and Sales of Publications

Administration Manager

Peter J. Mitchell

Secretary to Secretary General and Administration Manager

Council and Standing Committees Administration

Wendy Messer

Membership, Publication Sales and Conference Registrations

Kathy Lennon

Editorial, Information and Public Relations

Editor

Loveday Murley

Information and Public Relations Officer

Tim Brown

Assistant Information Officer

Mary Stevens

Secretary to Information Department

Tricia Sice

WHO'S WHO

The Rt. Hon. LORD NATHAN MA, FSA, FRSA, FRGS, President of the Society, has been a member of the Royal Commission on Environmental Pollution since 1979. He is a member of the House of Lords Select Committee on the European Communities and was Chairman of its Environment Sub-Committee (1983-87).

He is a solicitor and was, until recently, senior partner of Herbert Oppenheimer, Nathan and Vandyk, Solicitors, London and has been an associate member of the Bar Association of the City of New York and of the New York County Lawyers Association for many years. He is a member of the International Bar Association and gave the opening address at their Environment meeting in Singapore in 1983. He is President of the UK Environmental Law Association and gave the inaugural Garner Lecture in 1987. He gave the Macmillan Education Lecture in 1977 on Energy and the Environment. He has written and spoken extensively on environmental issues.

Lord Nathan is a Vice President of the Royal Society of Arts (Chairman 1975 - 77 and subsequently Chairman of its Environment Committee). He was Chairman of a Working Party on Energy and the Environment which reported in 1974.

CLLR. LEN POOLE, BEM, JP, Immediate Past President of the Society, represents the Northern Division of NSCA; he is Deputy Chairman of the Noise Committee and a Past Chairman of the Society's Council. Cllr. Poole has been Chairman of the Northern Division and a member of Council since re-organisation of local government, Chairman of the Environmental Health Committee, Middlesbrough Borough Council (since re-organisation) and Member of South Tees Health Authority (representing Middlesbrough Council), Justice of the Peace since 1965 and Deputy Chairman of Domestic and Adult Courts. Cllr. Poole was responsible for persuading his Council to complete its Domestic Smoke Control programme by the target date of 1979 (in spite of financial cut backs). He is a Member of the Boroughs of Cleveland Pollution Control Group (Industrial Pollution), also an Executive Member and President of the Federation of Burial and Cremation Authorities, Vice-Chairman of 'Tidy North' Regional Committee and National Executive Member of Keep Britain Tidy Group and President of Middlesbrough Mentally Handicapped Society.

KEN COLLINS, MEP, Vice President of the Society, was educated at Hamilton Academy, the University of Glasgow and Strathclyde University. He was for three years an apprentice metallurgist with Dalzell steelworks, Motherwell, before attending university. Subsequently, he worked as a Planning Officer with Glasgow and then West Yorkshire (1965 - 1967); organiser tutor, Workers' Educational Association (1967 - 1968); teacher, Glasgow College of Building 1968 - 1970; and Lecturer in Urban Studies, Paisley College of Technology 1970 - 1979. He has been an MEP since 1979. He was a Member of East Kilbride Town and District Councils 1973 - 1979, and a Board Member, East Kilbride Development Corporation 1976 - 1979. Ken Collins is Spokesman on Environment, Public Health and Consumer Protection for the Socialist Group of the European Parliament, and was formerly Chairman (1979-84) and Vice Chairman (1984-87) of the Parliament's Committee on the Environment, Public Health and Consumer Protection.

The Rt. Hon. THE EARL OF CRANBROOK, MA, DL, Vice President of the Society, is a graduate of the universities of Cambridge and Birmingham. From 1956 - 1970, he was employed as a biologist in several posts in S.E. Asia. Lord Cranbrook has been a member of the Royal Commission on Environmental Pollution since 1981 and of the Natural Environment Research Council 1982-88. A member of sub-committee 'F' (Environment), House of Lords Select Committee on the European Communities, he was Chairman from 1980 - 1983 and again, 1987; Lord Cranbrook is President of the Suffolk Wildlife Trust and Suffolk Naturalists' Society. Since 1987, he has been a non-executive member of the Board of Anglian Water. He is married, with two sons and a daughter, and now lives and farms in Suffolk.

DAVID F. HAYNES, MP, Vice President of the Society, was elected MP for Ashfield in the May 1979 general election. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

SIMON HUGHES, MP, Vice President of the Society, was elected MP for Southwark and Bermondsey in 1983 and has been the Liberal Party Spokesman on the Environment since that time. Educated at Christ College, Brecon and Selwyn College, Cambridge, Simon Hughes was called to the Bar in 1974 and has been in practice since 1978. Simon Hughes was Chairman of the Liberal Party Advisory Panel on Home Affairs from 1981-83 and since 1983 has been Joint President of the British Youth Council and Vice President of the National League of Young Liberals. He is joint author of 'Human Rights in Western Europe; the next 30 years' and 'The Prosecutorial Process in England and Wales', both published in 1981.

SIR HUGH ROSSI, MP, Vice President of the Society, was educated at Finchley Catholic Grammar School and King's College, University of London. He subsequently qualified with honours as a solicitor. Among other appointments, Sir Hugh was Government Whip for the Conservative Party from 1970-74 and Parliamentary Under-Secretary of State at the DOE in 1974. Opposition spokesman on Housing and Land 1974 - 1979. Minister of State Northern Ireland Office 1979 - 1981 and Minister of State for Social Security 1981-3. From 1972-3 he was Deputy Leader of the UK Delegation to the Council of Europe and the Western European Union, and has been Chairman of the House of Commons Select Committee on the Environment since 1983. Sir Hugh was knighted in 1983 and became Knight Cmr. St. Gregory in 1985.

MADRON R. SELIGMAN, MEP, BA, Vice President of the Society, was educated at Harrow School and Balliol College, Oxford, where he was President of the Oxford Union in 1940. Mr. Seligman has been a Member of the European Parliament representing Sussex West since 1979. He has been Chairman of the Incinerator Company Ltd. since 1960.

GARETH L. WARDELL MP, Vice President of the Society, is a graduate of the London School of Economics and Political Science. From 1972-73 he was a Lecturer in Education at Bedford College of Physical Education and from 1973-82 Senior Lecturer in Geography at Trinity College, Carmarthen. He is a Fellow of the Royal Geographical Society and has been MP for Gower since 1982. Mr. Wardell has been Chairman of the Select Committee on Welsh Affairs since 1984.

PROFESSOR D.G.T. WILLIAMS, MA, LLB, Vice President of the Society and a Past President of the Society, has been President of Wolfson College, Cambridge, since October 1980 and Rouse Ball Professor of English Law at the University of Cambridge since 1983. His academic interests lie principally in the fields of constitutional and administrative law, and in recent years he has been particularly interested in matters relating to the environment. He was a member of the Clean Air Council 1971 - 1979, of the Commission on Energy and the Environment 1978 - 1981, and of the Royal Commission on Environmental Pollution 1976 - 1983. In addition, he was a member of the Council on Tribunals, 1972 - 1982. David Williams was born in Carmarthen in Wales, went to University at Cambridge, and was called to the Bar in 1956. He was a Commonwealth Fund (Harkness) Fellow in the United States, 1956 - 1958, and taught at the Universities of Nottingham and Oxford before returning to Cambridge in 1967.

BILL F. SNOW, MIEH, MInstWM, is Chairman of the Council of the Society and represents the North West Division, NSCA. He commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC, Carlisle. He was appointed district Public Health Inspector to Accrington BC in 1962 and Deputy Chief Public Health Inspector to Warrington RDC in 1969. He has held his present post of Chief Environmental Health Officer to Warrington BC since 1974. Bill Snow has been a member of the North West Divisional Council since 1976 and was elected Chairman, for a 2 year term, in 1981. He has served on the Council and Technical Committee of the Society since 1979, being Chairman of the latter from November 1984 until 1988.

KENNETH S. DUNN, CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers' Association) and is Immediate Past Chairman of the Council of the Society. In 1969 he joined The Incinerator Company Limited, where he is now Managing Director, with special responsibility for boiler development, with Robey and Co. Ltd. of Lincoln. He has been a member of EPEMA since its formation in 1972.

FRANK E. SHEPHARD, BSc, PhD, FRIC, CChem, FRSC, CEng, FIGasE, represents British Gas plc and The Institution of Gas Engineers. He is Deputy Chairman of the Council of the Society and Chairman of its Finance and Administration Cttee. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. After a period as Assistant Manager responsible for the Environmental Studies Group within the Analytical Division of London Research Station he is now Manager of that Division. He also has a special responsibility for outdoor environmental matters within the R & D Division of British Gas. He is a member of The Institution of Gas Engineers Environmental Studies Committee.

ALAN J. REES is Deputy Chairman of the Council of the Society, Chairman of the Society's Conference and Promotions Committee and represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. From 1978 to 1983 he was Honorary Secretary of London & South East and Central Southern Divisions.

BRIAN H. EDWICK, Honorary Treasurer of the Society, is Managing Director of F.E. Beaumont Ltd. He is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers.

DR. RAYMOND W.K. ALLEN, BSc, MSc, PhD, CEng, FICHEM E, represents the Filtration Society and serves on the Society's Technical Committee. He is a member of the Academic Advisory Panel of the Hughenden Foundation. He is a chemical engineer by training and runs the gas cleaning group of the Separation Processes Service, based at the Harwell Laboratory. His principal area of interest is research into better and cheaper ways of designing air pollution control equipment. He has published over 50 papers and reports on all aspects of this subject. Dr. Allen is technical editor of the Journal, 'Filtration and Separation' and a frequent industrial consultant on matters of emission control.

DR. DAVID J. BALL D.Phil, BSc, FInstP, represents the London and South East Division, NSCA. He graduated from Exeter and Sussex Universities and went on to work for the Bell System (USA), Queen Mary College London, and the National Physical Laboratory. In 1974 he joined the GLC's Environmental Sciences Division, becoming head of the Pollution Monitoring Group in 1982 (now carried out through London Scientific Services). Dr. Ball has participated in a number of NSCA Workshops and is a regular contributor to 'Clean Air'. He is a member of the UK photo-oxidants and precursors review group.

DR. R.A. BARNES represents the Central Southern Division, NSCA, and is Chairman of the Society's Climate Change Working Group. He graduated from University College London in 1969 and was awarded his PhD in 1975 for research into the long range transport of atmospheric smoke and sulphur dioxide. After a period of mixed air pollution consultancy and university teaching during and after his PhD, he was appointed to the DOE's Central Unit on Environmental Pollution. He later joined Esso Petroleum Co. Ltd., where he is responsible for all air pollution research activities and for providing strategic environmental planning information relevant to company operations and products. In 1978 Dr. Barnes was seconded from Esso to the United Nations to prepare a consultant's report on all aspects of the long range transport of air pollution. This report was used as the technical basis for the UN ECE Convention on Transboundary Pollution.

GEORGE W. BARRETT represents the Central Electricity Generating Board. Having graduated from the University of Manchester in 1968 with an Honours

degree in Physics, he was subsequently awarded an MSc in Applied Acoustics from the University of London. For three years he worked in the Acoustics Laboratory of the British Aircraft Corporation at Weybridge where he dealt with all aspects of aircraft noise. In 1972 he joined the Planning Department of the Central Electricity Generating Board where he is now a Group Head in the Environment Section, which deals with all aspects of environmental policy and planning for power generation.

JOSEPH J. BEAGLE, BA, MIEH, represents the London & South East Division, NSCA, having become Honorary Secretary on his retirement from local government in 1983. He was a Divisional EHO with the London Borough of Hammersmith & Fulham where he was responsible for noise and air pollution control matters, including investigations into lead pollution and asbestos control. Mr. Beagle is a member of the Technical and Noise Committees and the Civil Nuclear Power Working Group.

MAX BEAUMONT, FInstE, CIMG TechE, MIPI, is a Past Chairman of the Council of the Society, and represents the London and South East Division, NSCA. He was educated at Dulwich College, joined the family firm as an apprentice steeplejack and served as pilot RAFVR 1940-46. He is founder member and past Chairman of the Environmental Protection Equipment Manufacturers' Association, Past President of the National Federation of Master Steeplejacks, Vice-President of CICIND. Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health and Safety Group and British Flue and Chimney Mfgs. Assoc. He is a member of various BSI Technical Committees and a holder of 4 British patents. Max Beaumont is Chairman of F.E. Beaumont Ltd, Steeplejacks & Engineers.

JOHN BODDY is a consultant on petroleum fuels and environmental matters. He is Chairman of the NSCA Technical Committee on which he has served for many years, and he has been a member of the London and South East Divisional Council for the past two years. Before becoming a consultant he was employed by Mobil Europe Inc, Mobile Oil Co. Ltd and BP, mainly on product research and environmental matters. Mr. Boddy was also engaged in joint activities of the Motor and Petroleum Industries in Europe - on motor vehicle and engine emission control - in which sphere he chaired the Fuels Committee of the Coordinating Council for the development of performance tests for lubricants and engine fuels. He served on the Council of the Institute of Petroleum from 1979 to 1981.

CLLR. J. MAKIN BRAMLEY represents the Yorkshire & Humberside Division, NSCA. A farmer in private life, he has been a member of District Councils for 30 years and Chairman of the Environmental Health Committee for the last twelve years. He is a member of the North Yorkshire County Council and a former member of the Yorkshire Water Authority; he currently chairs the Central Consultative Committee and is Vice Chairman of the Hull and Goole Port Health Authority. Cllr. Bramley is a member of the Provincial Council and also of the Yorkshire and Humberside Pollution Advisory Council.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA, and is Deputy Chairman of the Conference & Promotions Committee. He has been a member of the East Midlands Division for twenty years, Chairman of the Division 1987-88 and a Member of the Council of the Society for fourteen years. He has been a Member of the Ashfield District Council and Kirby-in-Ashfield UDC for over twenty years, was Chairman of the Kirby-in-Ashfield UDC Health Committee from 1971/74 and Chairman of the Ashfield DC Environmental Health Committee, 1974 to 1983. Cllr. Chamberlain was elected Chairman of the Central Nottinghamshire Community Health Council in February 1981 and became a member of the Central Nottinghamshire District Health Authority in 1982. He has served as Justice of the Peace for many years.

JAMES C. CLANCEY, OBE, FIWEM, FIEH, FRSH (Hon), MIEHvSc, MAMerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is a past Vice President of the Institution of Public Health Engineers, an Hon. Fellow of the Institution of Water and Environmental Management; an Hon. Fellow and Life Vice President of the Royal Society of Health and a past Vice President of the Institution of Environmental Health Officers. He was Chairman of the Council of the Society, 1975/76 and has for thirty seven years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

PAUL A. COONEY represents the London and South East Division, NSCA. He is a Principal Environmental Health Officer at the London Borough of Greenwich where he heads a specialist unit responsible for pollution control. Mr. Cooney has held this post for several years and accumulated a wealth of expertise on environmental matters, providing evidence to the Royal Commission for its 9th and 10th Reports. He has a keen interest in

the biological effects of lead, particularly on young children, and with colleagues in the Health Authority has been closely involved in five major blood lead studies. His unit has also been responsible for the investigation and remedial treatment of all Greenwich Council Land holdings (both developed and undeveloped) where the presence of toxic substances has posed a risk to health. At present he is deeply involved in dealing with problems posed by the presence of asbestos in private and public sector buildings, but still finds time to lecture to a variety of groups on pollution matters and currently sits on the Society's Technical and Noise Committees.

DAVID R. COPE is Executive Director of the UK Centre for Economic and Environmental Development (UK CEED), an independent policy research unit, supported by UK charitable foundations, industrial and commercial interests and central government, which promotes the economic analysis of environmental problems in the UK. He is Special Lecturer in Energy and Environmental Studies at the University of Nottingham and a visiting lecturer at Cambridge University; he is a member of the CEEB's independent Environmental Development Advisory Panel; Friends of the Earth's Pollution Advisory Panel; the DOE's Environmental Protection Technology Scheme Advisory Group on Energy, Nuclear Safety and Acidification Working Groups; the Fellowship of Engineering's Acid Emission Abatement Task Force: he is a Professional Associate of the Institute of Energy and a member of the British Institute of Energy Economics. He has written and lectured widely on all aspects of the economics of energy use and the environment.

HYLTON DAWSON is the Company Safety Engineer at Rolls-Royce plc and represents the Society's South West Division of which he is Chairman. He is co-patentee of two designs of silencer for supersonic jet engines and in 1971 was awarded the President's Gold Medal of the Society of Engineers. He has a particular interest in low frequency acoustics. He is Chairman of the NSCA's Noise Committee and author of the NSCA book 'Noise and Society'. Mr. Dawson represents the NSCA on the governing body of the International Association Against Noise (AICB).

MAURICE DICKINSON, MIEH, MRSH, represents the North West Division, NSCA. He was Chief Environmental Health Officer for the Borough of Altrincham from 1957 to 1974, and the Metropolitan Borough of Trafford since Local Government Reorganisation. A Member of the Institution of Environmental Health Officers and a Member of the Royal Society of Health, he is keenly interested in all forms of pollution and is involved with the

Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and at present serves on the Finance and Administration Committee. He is also a Member of the Manchester Area Pollution Advisory Council.

KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He is City Environmental Health Officer, Peterborough City Council, and has been a representative of Peterborough City Council to the NSCA for over 20 years, and a member of the East Midlands Division for over 18 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference and Promotions Committee since 1974.

JOHN R. P. EVANS, ACP, MBIM, LRSC, MEd, is Chairman of the South and Mid Wales Division, NSCA. A Chemistry graduate, he has worked as an industrial chemist with ICI Fibres and the British Steel Corporation. He taught for several years, and is currently Warden of an Adult Education Centre. Mr. Evans was elected a Member of the Rhymney Valley DC in 1976 and is an Executive Member of the Labour Party (Wales).

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last eight years he has been a Member of the Scottish Division, NSCA, and for the last ten years, specialist Pollution Control Officer, City of Edinburgh District Council. Mr. Gibson serves on the Society's Conference and Promotions Committee.

CLLR. JOHN R.A. GRIFFITHS represents the West Midlands Division, NSCA, and is a member of the Parliamentary & Local Government Committee. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. He was first elected to Worcester City District Council in 1973 and re-elected in 1980. Cllr. Griffiths is Chairman of the Environmental Services Committee, Worcester City DC and has recently taken early retirement after 25 years with Hereford and Worcester Fire Brigade.

DAVID A. HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC.

J. OLIVER HETHERINGTON, BA, MIEH, MIOA, represents the Northern Ireland Division. He worked with Belfast City Council as an Environmental Health Officer from 1969 until 1985, being engaged first in general environmental health duties, but specialising after a number of years in pollution control duties, having responsibility ultimately for noise control in the city as a Principal Environmental Health Officer. He is now lecturing in Environmental Health at the University of Ulster, specialising in pollution studies.

CLLR. MRS. E. JANE INGLEFIELD, BA, RGN, represents the East Midlands Division, NSCA, and is Deputy Chairman of the Parliamentary and Local Government Committee; she has been a member of the Divisional Council of the East Midlands for the past 12 years and is the Chairman of Housing for High Peak Borough Council. She is a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. Mrs. Inglefield is currently working for the Marie Curie Memorial Foundation as the Regional Co-ordinator of Community Nursing Services for Trent, Mersey & North West Regions.

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties relating to atmospheric pollution, noise, toxic waste disposal, etc. He is a Past Chairman of the Gwent Branch of the Institution of Environmental Health Officers and currently the appointed Hon. Secretary of the South and Mid Wales Division, NSCA.

K.G. (GEOFF) KAUFMAN represents the North West Division of the Society of which he has been Honorary Secretary since 1987. He is Divisional Environmental Health Officer, heading the Pollution Control Unit, at Tameside Metropolitan Borough Council. He has held several appointments with local authorities in the Greater Manchester Area and is active on the Manchester Area Pollution Advisory Council, being a member of its Technical Committee and past Secretary of its Noise Working Group. He is a member of the Society's Noise Committees.

KEN KELLY represents the Yorkshire and Humberside Division of the Society and was appointed Divisional Secretary in September 1987. He is Deputy Director of Environmental Health for Rotherham MBC and has held appointments with Doncaster MBC, Doncaster RDC and Leeds CBC. During the thirty years he has been in local government he has always been associated

with the implementation and progression of pollution control in its many facets. He is a member of the Society's Parliamentary and Local Government Committee.

R.W. (BOB) LANDER, FIEH, FRSH, MInstWM, represents the Institution of Environmental Health Officers, and is Chairman of the Society's Parliamentary and Local Government Committee. He was Chief Environmental Health Officer to Middlesbrough Borough Council until his recent retirement. He currently serves on the Northern Divisional Council of the Society, and previously served on the East Midlands Divisional Council. He is a Fellow of the Royal Society of Health; a Fellow of the Institution of Environmental Health Officers; a Member of the Institute of Wastes Management and he is a North East Centre Council Member of this Institute.

PATRICK LEGGE, BSc, MIEH, represents the Central Southern Division. From 1978 to 1982 he was with Dudley MBC specialising in pollution control. He moved to the London Borough of Ealing as a Senior Environmental Health Officer and is now a Principal Environmental Health Officer with the Slough BC. He is a centre councillor of the Institution of Environmental Health Officers and serves on the Society's Technical Committee.

IAN R. LIVERSIDGE, FRSH, MIEH, represents the North West Division NSCA, and serves on the Finance & Administration Committee. Employed by Bolton MBC, he is the Council's Chief Officer in charge of the Environmental Health Division. He is responsible for the co-ordination of all matters relating to air pollution and noise control. Mr. Liversidge operates an Industrial Liaison Committee with representatives of both, local industry and the Council, which evaluates and tries to ameliorate the problems of local industry as a polluter.

IAN MACKAY represents the Solid Smokeless Fuels Federation and is a member of the Parliamentary and Local Government Committee. Having joined the National Coal Board in 1948, he served in various departments, particularly marketing, and became District Sales Manager for Teesside. In 1970, he joined Associated Heat Services Limited as Sales Manager and in 1982 was appointed General Manager designate for the Solid Smokeless Fuels Federation. He was Chairman of the North East Coal Industry Society in 1980. Mr. Mackay is an associate member of the Institute of Marketing.

GERALD M. McDADE represents the Doncaster Metropolitan Borough Council Yorkshire and Humberside Division. He was a member of Thorne RDC from 1959 to 1974, and was Chairman in 1963 and 1970. He has been Chairman of

various Committees including Public Health for Doncaster Metropolitan Borough Council since 1974, and was Mayor 1975-76. He is the Vice Chairman, Planning Committee, a local magistrate and Vice Chairman of the NSCA Yorkshire and Humberside Division. He is retired, having previously been in Management for ICI Fibres.

DIGBY MORGAN-JONES represents the Association of Industrial Filter and Separator Manufacturers (formerly the Industrial Gas Cleaning Association). He is a Fellow of the Institute of Chartered Accountants in England and Wales, and Partner in the firm of Crane Partners. He has been Chairman of IGCA since 1972 and of the AIFSM from its formation.

MRS. E.M.L. (PAT) NAYLOR, MIHEc, MRSH, ARCA, retired as Chairman of both the London & South East and Central Southern Divisions in 1988. She has been associated with the Women's Solid Fuel Council for 25 years and is the present Chairman of the London and Southern Region WSFC. Mrs. Naylor is a Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council. Member of the British Standards Institution. Kitchen Planning SFC Committee. Member of the United Kingdom Home Economics Federation and Past President of the United Kingdom Federation of Business and Professional Women. She is a member of the Society's Conference and Promotions Committee.

HOWARD NOWELL has recently retired as Honorary Secretary of the South West Division. He has spent the greater part of his professional career with Bath City Council where he is now Principal Environmental Health Officer with special responsibility for environmental pollution control. He has served on numerous pollution related bodies and is a founder Member and Past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee.

CLLR. ROBERT F. OGILVIE represents the East Midlands Division, NSCA of which he has been a member since 1979. He has been a member of Corby District Council since 1973 and is a member of the Policy and Planning, and Environmental and General Services Committees. He is Chairman of Development Control and a member of the Community Health Council.

W. CHARLES B. ROBSON has been Honorary Secretary of the Northern Division since 1982 and a member of that Division since 1974. He has recently retired as Environmental Health Officer for Darlington BC, a post which he held for 10 years. From 1976-78 Mr. Robson was responsible for the direction, on behalf of the Noise Advisory Council, of the successful

Darlington Quiet Town Experiment and in this context has addressed meetings in the UK and abroad and presented papers to the IEHO Congress, Planning Groups and other bodies. In 1978 he formed the Durham Districts' Pollution Liaison Committee, of which he was Honorary Secretary until 1982. Mr. Robson serves on the Parliamentary and Local Government Committee.

NICHOLAS M. ROSS, MBIM, M Inst M, represents the Low Temperature Coal Distillers' Association. Having joined the National Coal Board in 1967, he served in Marketing Departments in Yorkshire and the Midlands. In 1978 he joined National Smokeless Fuels Ltd. and in 1981 took up an appointment with the NCB/SFAS as Sales Manager for Merseyside, West Cheshire, West Lancashire and the Isle of Man. In 1985 he was seconded to NCB Industrial Branch and in May of that year joined the Coalite Group PLC and is General Sales Manager "Coalite" and a Director of Coalite Fuels and Chemicals. Mr. Ross served as Secretary of the North Midlands Coal Industry Society from 1970 - 1979 and took the Chair in 1980. He is Chairman designate of the SSFF Publicity Committee, sits on the SSFF National Executive Committee and is the LTCDA representative on SFAS Regional Committees in Yorkshire, North West and London and is a co-opted member of the East Midlands Division of the NSCA.

PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and South East Division, NSCA, and serves on the Society's Technical Committee. He was Chairman of the Council of the Society 1978/79. His Books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); 'Cloud Investigation by Satellite' (Ellis Horwood 1986): four colour filmstrips 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5 and was President of the Royal Meteorological Society 1986-88. He was appointed as Lecturer (Meteorology) Imperial College, 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmos. Env.). He was a member of the Clean Air Council from 1968 until its demise and Chairman of CAC's Technical Committee from its inception. He was an Alderman, London B. of Merton (1971/78) and on the Metropolitan Water Board 1971/74. Professor Scorer was awarded the title Emeritus

Professor in 1982 and is now a Senior Research Fellow in Mathematics and Environmental Technology at Imperial College.

CLLR. TERRY SHORT is Chairman of the West Midlands Division and a member of the Parliamentary and Local Government Committee. He has been a member of Bedworth Urban District and later Nuneaton and Bedworth Borough Councils since 1971 and since that time has been involved in both the Warwickshire Environmental Council and the Midlands Association of Local Authorities Joint Advisory Council for Noise and Pollution Control; he is currently Vice Chairman of the latter. Cllr. Short is interested in all aspects of the environment, both urban and rural.

JACK B. SIMPSON has been a member of North West Divisional Council NSCA since 1980. A Founder Member and Honorary Technical Officer of the Manchester Area Pollution Advisory Council (formerly the Manchester Area Council for Clean Air and Noise Control) and Chairman of its Technical Advisory Committee since 1984. Trained, and qualified in 1961, whilst employed by Lancaster City Council before joining Failsworth UDC in 1963 and becoming the Chief Public Health Inspector in 1972. On amalgamation into Oldham MBC in 1974 became Principal EHO (Pollution and Noise Control) and in 1984 was promoted to Divisional EHO (Specialists).

MIKE SMITH BSc, MSoc, Sc, MIEH represents the Yorkshire and Humberside Division, NSCA and was appointed Deputy Director of Consumer and Environmental Services with Barnsley MDC in 1986. He qualified as an Environmental Health Officer in 1969 and has since held senior appointments with several local authorities. He is currently the convenor for the Air Pollution Sub-Committee of the Yorkshire and Humberside Pollution Advisory Council and takes particular interest in problems relating to scrapyards and methane gas emissions.

CLLR. HARRY I. THOMAS is currently Vice Chairman of the South and Mid Wales Division of NSCA and is a Member of the Conference and Promotions Committee. He was first elected as Councillor in May 1967. Being a past Mayor of Lliw Valley Borough Council, Councillor Thomas is currently the Chairman of the Council's Amenities Committee, which is responsible for all matters relating to environmental health and leisure activities. Councillor Thomas also represents his Council on the West Glamorgan Joint Environmental Pollution Committee (being Vice Chairman and Chairman Elect), and is also Chairman of the Gower Local Consumer Advisory Committee of the Welsh Water Authority.

TREVOR TOWNSEND, MIEH, FRSH, represents the West Midlands Division and is a member of the Noise Committee. He is currently Assistant Director of Environmental Health and Consumer Services with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, mainly specialising in environmental pollution. He is the past Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control and is currently a lecturer and examiner for both the Environmental Health Officers Examination Board and the Royal Society of Health's Diploma in Air Pollution Control.

JOHN T. WADE, MSc, MIOA, MIEH represents the London and South East Division. He qualified as an Environmental Health Officer in 1977 and has obtained Master of Science degrees in Environmental Pollution Science and Environmental Acoustics. He specialised in noise and air pollution matters during his last 4 years in local government and was one of the first people to use diffusion tubes to monitor environmental NO₂ concentrations in London. In 1987, he joined Aspinwall and Company Limited (environmental consultants) and currently is involved in the general promotion of the company's services in London and the South-East and technically heads a small but expanding acoustics group as a Senior Consultant. He is a member of the Society's Noise Committee and Secretary of the London Branch of the Institute of Acoustics and has lectured to various professional and student groups on noise and air pollution related problems and presented papers on hand-transmitted vibration. He holds membership of the Acoustical Society of America and is an Associate Member of the Institute of Noise Control Engineering.

AUBREY G. WARD represents the North West Division, NSCA, and is a member of the Noise Committee. In previous years (1964-74) he has served on the NW Divisional Council, the National Council and the Parliamentary and Local Government Committee; until 1974 he was Assistant Technical Officer to the SELNEC Standing Conference on Air Pollution. Mr. Ward held appointments at Salford, Manchester and at Eccles until its completion of smoke control in 1974 and then with the City of Salford which became the first MBC to complete its smoke control programme in 1977. Mr. Ward is currently the Publicity Officer to the Manchester Area Pollution Advisory Council, having served on the Technical Committee and Noise Working Group.

ROBERT F. WEST, MIOA, MIEH represents the NSCA South and Mid Wales Division. He qualified in 1968 as an Environmental Health Officer from the University of Wales, Institute of Science and Technology. Corporate

Membership of the Institute of Acoustics and Institution of Environmental Health Officers and has been involved in Pollution Control since 1970 with Cardiff City Council. His other responsibilities include Community Health, Health Education and Pest Control. He serves on several Regional Committees and working groups dealing with varying aspects of Pollution Control and is an Examiner with the RSH. He is married with one child.

ROBERT W.C. WHEATLEY represents British Coal and is a past Chairman of the Society's Council. Mr. Wheatley was born in Berwick-upon-Tweed and educated at King Edward VI school, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he became Technical and Marketing Director and subsequently Director (Administration and Technical). In 1983 he was appointed Director of Scientific Control: in this post he was responsible for the technical aspects of the Board's scientific service in all coalfields. Mr. Wheatley, now retired, had specific responsibilities to the Board on a wide range of scientific matters which included environmental issues and the testing of new types of solid fuel appliances and equipment. He has been a member of Council since 1966.

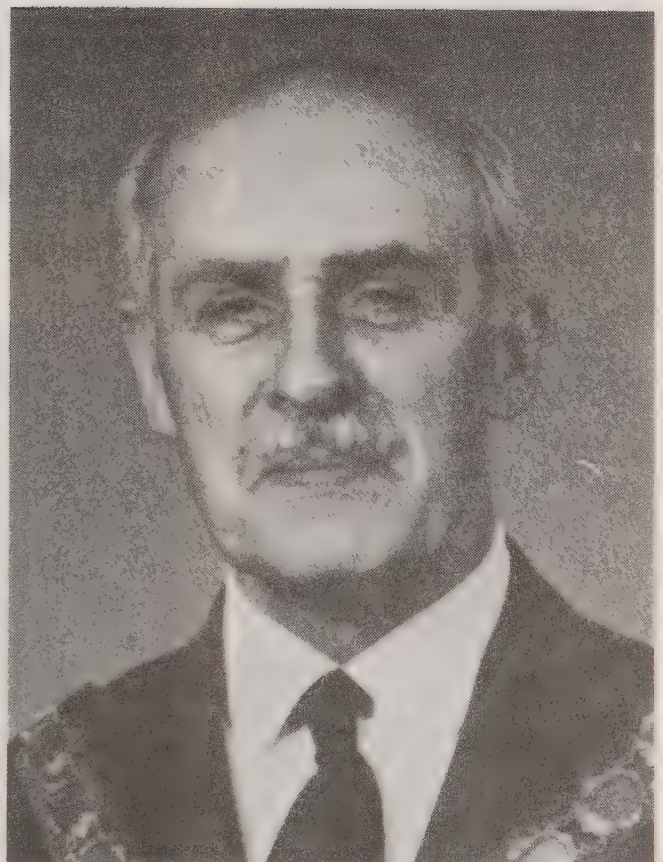
THOMAS W. YELLOWLEY, MBE, represents the Northern Division. He was elected to the Newcastle-upon-Tyne City Council in May 1963 and is Chairman of the Health and Environment Committee and also of the AMA General Services Committee and Chairman of LACOTS. Cllr. Yellowley was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977 and Vice Chairman again 1979-86. He currently serves on the Finance and Administration Committee.

BERNARD H. YOUNG, FIEH, represents the South West Division. He is a long standing member of the Society and has always taken an active interest in its affairs. Born and educated in London, he served as a Health Inspector with Willesden Borough Council and the Royal Borough of Kensington, and after moving to Andover RDC was appointed Chief Public Health Inspector to the Council in 1959. He moved to a similar position with Newton Abbot Rural District Council in 1970 and on re-organisation of Local Government he was appointed as Chief Environmental Health Officer in Teignbridge District Council which post he currently holds. He is particularly concerned with the pollution of rivers and its effects on the cultivation of shellfish, particularly oysters produced in polluted waters

and much research has been carried out by the Health Department in this field. He has also been actively involved in the investigation and control of atmospheric pollution caused by the handling of dirty cargoes in docks.



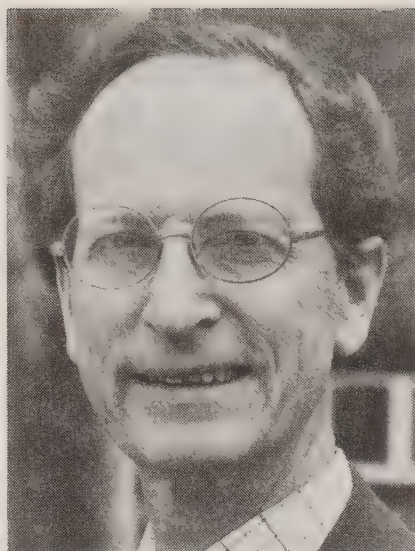
THE PRESIDENT



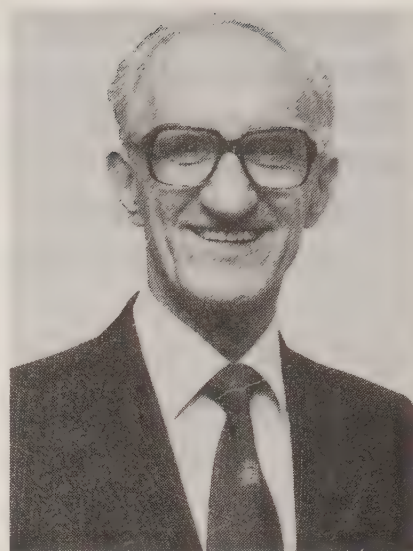
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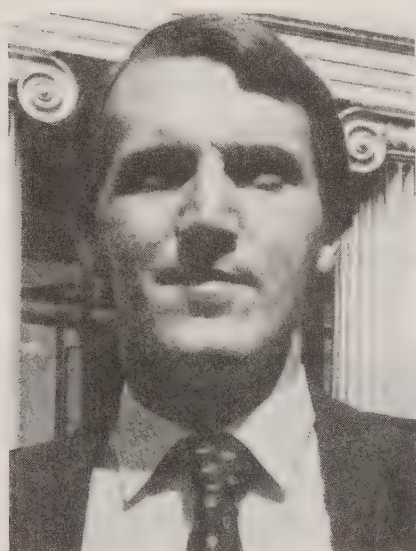
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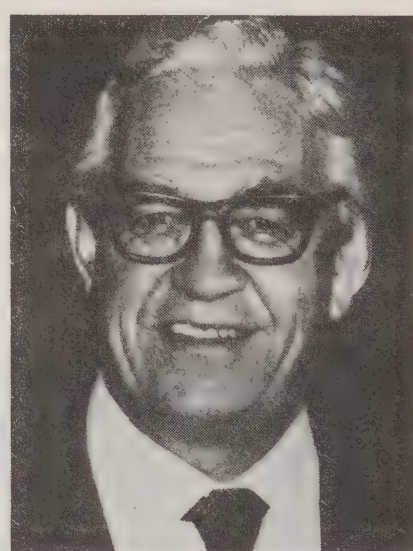
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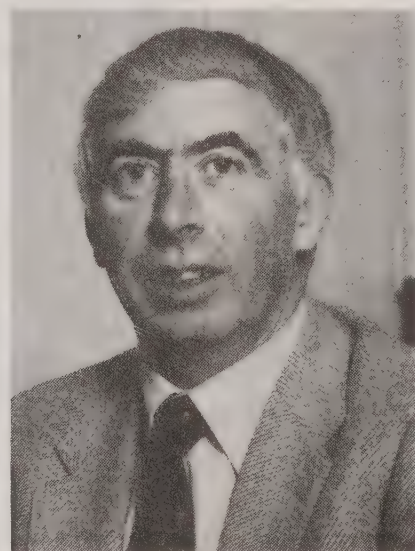
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M. SELIGMAN



PROF. D. WILLIAMS



W.F. SNOW



K.S. DUNN



F.E. SHEPHARD



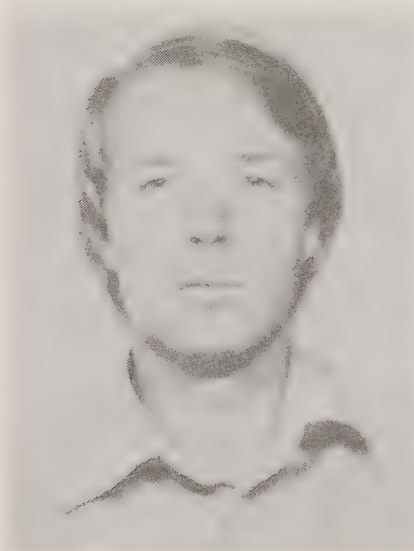
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B.H. EDWICK



DR. R.W.K. ALLEN



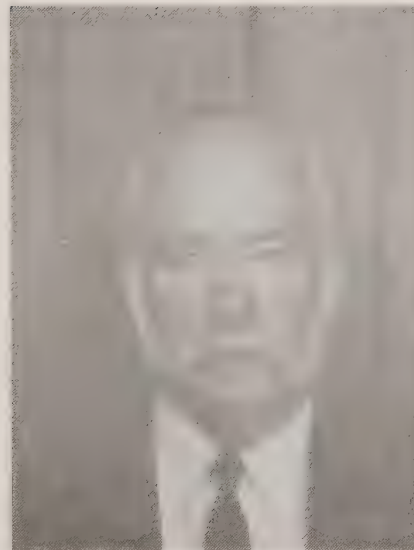
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DR. R.A. BARNES



J.J. BEAGLE



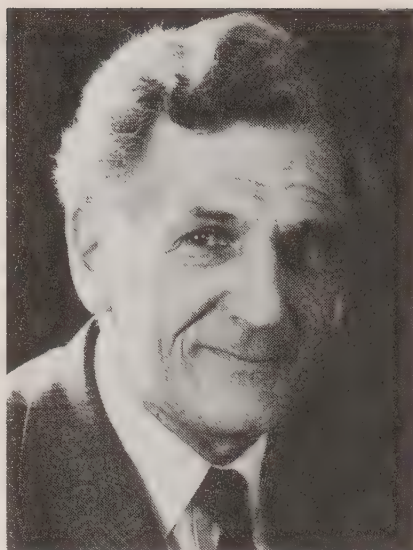
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J.M. BRAMLEY



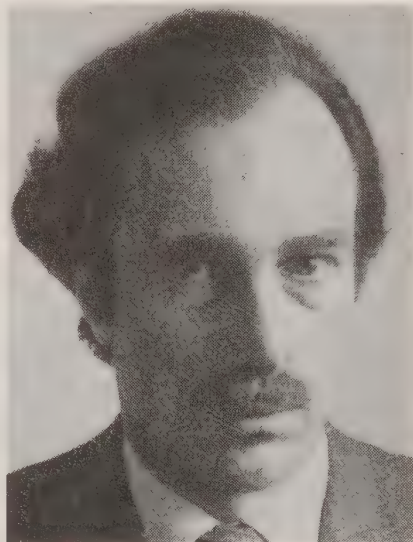
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J.C. CLANCEY



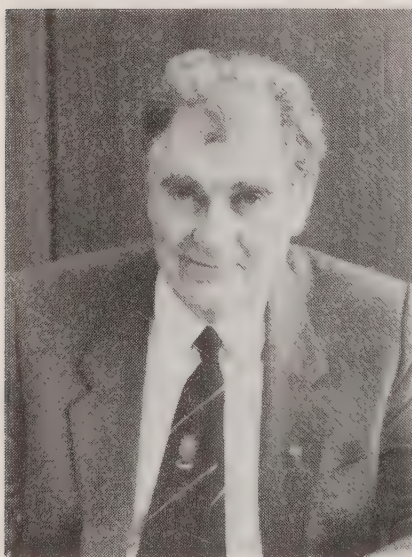
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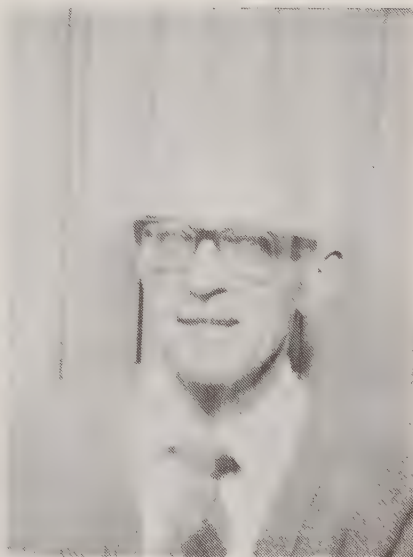
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H. DAWSON



M. DICKINSON



K.R. ENDERBY



J.R.P. EVANS



J.R.A. GRIFFITHS



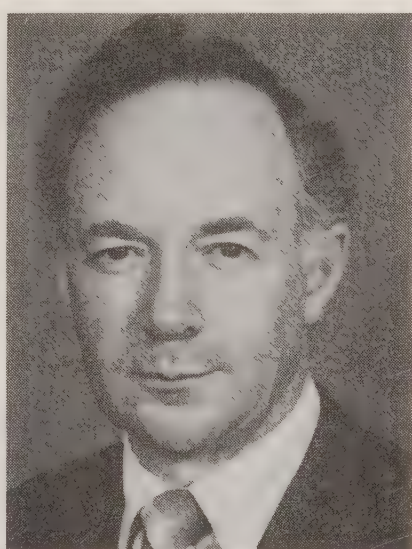
D.A. HARRISON



MRS E.J. INGLEFIELD



T. JONES



R.W. LANDER



P. LEGGE



I.R. LIVERSIDGE



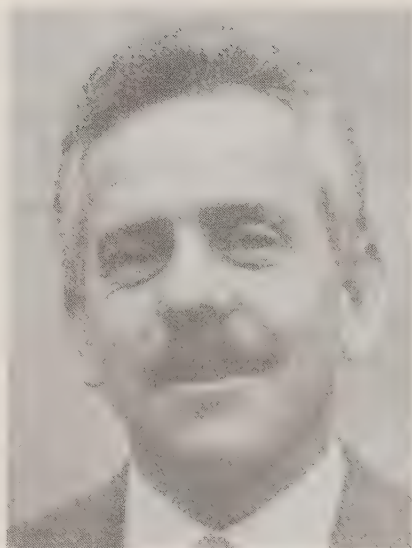
I. MACKAY



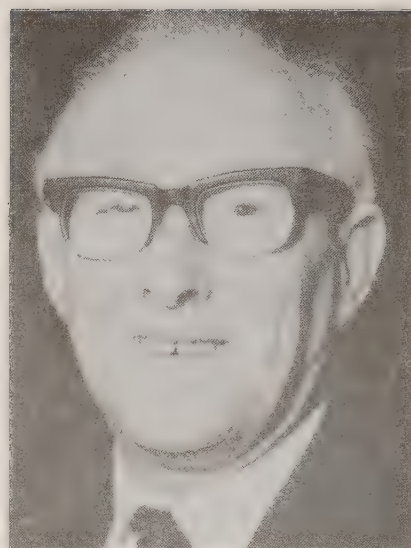
G.M. MCDADE



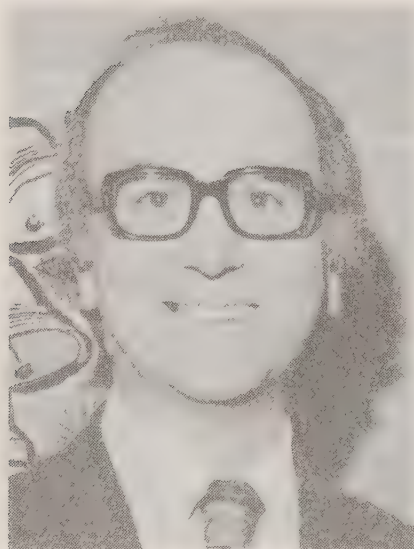
MRS. E.M.L. NAYLOR



H. NOWELL



R.F. OGILVIE



W.C.B. ROBSON



N.M. ROSS



PROF. R.S. SCORER



T. SHORT



J.B. SIMPSON



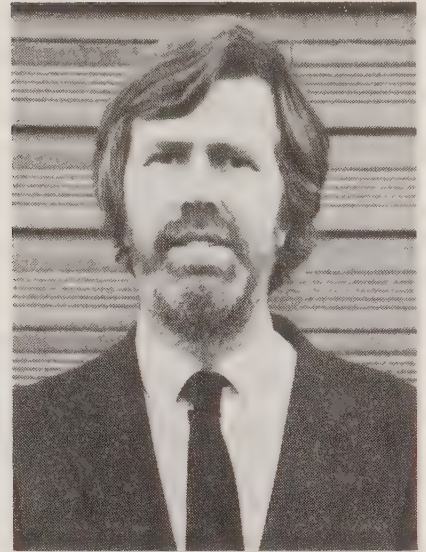
M. SMITH



H.I. THOMAS



T. TOWNSEND



J. WADE



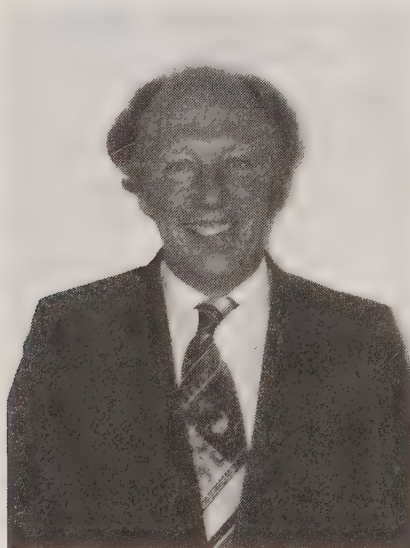
A.G. WARD



R.W.C. WHEATLEY



T.W. YELLOWLEY



B.H. YOUNG

DIVISIONAL MEMBERSHIP

DIVISION ONE

SCOTTISH DIVISION

Hon. Secretary: ~~F.J. Feeley~~ **C. MORGAN**
~~18 Bredisholm Drive, Baillieston, Glasgow~~
Telephone: ~~041 771 4378~~ **041-227 4341**

CITY OF GLASGOW DC
END. 23 Monbrose ST
GLASGOW G1 1RN

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Glasgow, City of

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Hamilton District Council
Monklands District Council
Motherwell District Council
Renfrew District Council

CORPORATE MEMBERS

British Steel Corporation
(Scottish Division)
Soundlab (Scotland) Ltd
Womens Solid Fuel Council

INDIVIDUAL MEMBERS

Blair, J.A.
Brown, Miss. Y.
Cannavan, Mrs. M.
Clark, B.
Foreman, J.*
Kelly, B.
MacPherson, I.
Martin, P.
McGhie, J.R.*
Nicolson, R.S.
Smart, J.
Watson, D.M.*

DIVISION TWO

NORTHERN IRELAND DIVISION

Chairman: Mrs. D. Dunlop

Hon. Secretary: ~~J.O. Hetherington~~

~~15 Casaeidona Rise, Belfast BT6 9RA~~

Telephone: ~~0232 794185~~

G. McCURDY
Senior EHO
Carrickfergus BOROUGH TOWN HALL
09603 51604 Carrickfergus CO Antrim BT38 7DL
2XT 252

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim Borough Council
Ards Borough Council
Armagh Borough Council
Ballymena Borough Council
Belfast City Council
Carrickfergus Borough Council
Castlereagh Borough Council
Coleraine Borough Council
Cookstown District Council
Craigavon Borough Council
Derry City Council
Larne Borough Council
Lisburn Borough Council
Newry & Mourne District Council
Newtonabbey Borough Council

CORPORATE MEMBERS

Coal Advisory Service
Eastern Health & Social Services Board

INDIVIDUAL MEMBERS

Hanna, B.P.

DIVISION THREE
NORTHERN DIVISION

Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear

Chairman: Cllr. L. Poole

Hon. Secretary: ~~W.C.B. Robson~~

~~51 Woodcrest Road, Darlington, County Durham DL3 8EE~~

Telephone: ~~0325 51653~~ **0325 352692**

K. ATKINSON,

30 LORAING Cres
DARLINGTON
DL1 5TS

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(North Eastern Region)
HM Inspectorate of Pollution

Sedgefield District Council
South Tyneside Metropolitan
Borough Council
Stockton-on-Tees Borough Council
Sunderland Metropolitan Borough Council
Teesdale District Council
Wansbeck District Council
Wear Valley District Council

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow-in-Furness Borough Council
Blyth Valley Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Derwentside District Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaugh Borough Council
Middlesbrough Borough Council
Newcastle upon Tyne, City of
North Tyneside Metropolitan
Borough Council

CORPORATE MEMBERS

AAF Ltd
British Steel Corporation
(Teesside Division)
Coal Merchants Federation of
Great Britain (Northern Region)
Womens Solid Fuel Council

INDIVIDUAL MEMBERS

Bird, D.
Calvert, Mrs. M.R.
Cayton, Mr. S.*
Cresswell, C. (Hon. Member)
Emerson, R.*
Isaac, Professor P.C.G.*
Lander, R.W.
Mair, L.*
Rutherford, I.J.

DIVISION FOUR
NORTH WEST

Cheshire, Clwyd, Greater Manchester, Gwynedd, Lancashire,
Merseyside

Chairman: ~~B. Douglas~~

Hon. Secretary: K.G. Kaufman

Environmental Health Department, Tameside MBC, Council Offices,
Wellington Road, Ashton-under-Lyne OL6 6DL

Telephone: 061 330 8355

Cllr R WILLIAMSON.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generationg Board
(North West Region)
Cheshire County Council
HM Inspectorate of Pollution
Shell UK Limited

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bolton Metropolitan Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Halton Borough Council

Hyndburn, Borough of
Knowsley, Metropolitan Borough of
Liverpool City Council
Macclesfield Borough Council
Manchester City Council
Oldham Metropolitan Borough Council
Pendle Borough Council
Ribble Valley Borough Council
Rochdale Metropolitan Borough Council
Rossendale Borough Council
Salford City Council
Sefton Metropolitan Borough Council
South Ribble Borough Council
St Helens Metropolitan Borough Council
Stockport, Metropolitan Borough of
Tameside Metropolitan Borough Council
Trafford Metropolitan Borough Council
Warrington Borough Council
West Lancashire District Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

CORPORATE MEMBERS

Acid Rain Information Centre
Coal Merchants Federation of
Great Britain (North West Region)
Greater Manchester Scientific Services
Greater Manchester Waste
Disposal Authority
Manchester Area Pollution Advisory
Council
Metal Box Engineering
University of Manchester, The
Institute of Science & Technology
- Pollution Research Unit
Womens Solid Fuel Council
Woolton Society, The

INDIVIDUAL MEMBERS

Allen, J.K.
Cain, J.
Cass, H.V.*
Christian, F.V.*
Evans, T.
Fallows, W.B.*
Ford, N.J.
Foskett, E.W.
Franklin, N.J.
Fraser, I.M.
Gee, J.
Gee, Mrs. J.
Hall, A.
Hayhurst, R.J.L.
Hayward, P.G.
Heald, I.A.
Hendy, Dr. B.
Hollingdale, R.A.W.*
Hughes, T.*
Kenyon, H.
Lloyd, A.
Lowe, T.H.
Mather, Sir. W.*
McGauley, H.J.
Mercer, I.G.
Parsonage, H.*
Phillips, S.D.
Pollitt, W.E.*
Shenton, J.
Vanstone, H.B.*
Winder, F.*
Yates, C.J.

DIVISION FIVE

YORKSHIRE AND HUMBERSIDE

Humberside, North Yorkshire, South Yorkshire, West Yorkshire

Chairman: Cllr. J.M. Bramley

Hon. Secretary: K. Kelly

Department of Environmental Health and Trading Standards,
Rotherham MBC, Thorn Bank, Moorgate, Rotherham, South Yorkshire
S60 2BU

Telephone: 0709 373731 ext 3102

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(North eastern Region)
HM Inspectorate of Pollution
Leeds City Council
Sheffield District Council

LOCAL AUTHORITY MEMBERS

Barnsley Metropolitan Borough Council
Calderdale Borough Council

Cleethorpes District Council
Doncaster Metropolitan Borough Council
Great Grimsby Borough Council
Harrogate Borough Council
Kingston upon Hull City Council
Kirklees Metropolitan Borough Council
Richmondshire District Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
Wakefield City Council
York City Council

CORPORATE MEMBERS

Atkins & Downie
British Steel Corporation
Union Carbide UK Limited
Womens Solid Fuel Council
Yorkshire & Humberside
Pollution Advisory Council

INDIVIDUAL MEMBERS

Bird, D.
Clarke, Dr A.G.
Deegan, L.E.A.
Gittins, M.J.
Green, G.H.
Jefferies, D.A.
Lane, Dr J.J.
Perry, A.W.*
Saword, A.C.*
Scott, J.A.
Store, N.J.
Tomlinson, E.S.
Twyford, W.B. (Hon. Member)
Wilcock, T.G.

DIVISION SIX

WEST MIDLANDS

Hereford & Worcester, Shropshire, Staffordshire, Warwickshire,
West Midlands

Chairman: Cllr. T.E. Short

Hon. Secretary: ~~L.F. Medlycott~~

stat
Hon. Sec. ✓

68 Hatherton Road, Cannock, Staffordshire WS11 1HQ

Telephone: 05435 5265

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham City Council
British Coal
British Gas
HM Inspectorate of Pollution

CORPORATE MEMBERS

Lodge-Cottrell Limited
School of Construction Studies
- The Polytechnic, Wolverhampton
Womens Solid Fuel Council

LOCAL AUTHORITY MEMBERS

Coventry City Council
Dudley Metropolitan Borough Council
Hereford City Council
Newcastle-under-Lyme Borough Council
North Warwickshire Borough Council
Nuneaton District Council
Redditch District Council
Rugby Borough Council
Sandwell Metropolitan Borough Council
South Staffordshire District Council
Stoke-on-Trent City Council
Walsall Metropolitan Borough Council
Warwick District Council
Wolverhampton Borough Council
Worcester City Council
Wrekin District Council
Wyre Forest District Council

INDIVIDUAL MEMBERS

Barker, I.
Batho, A.
Buck, Dr. G.W.
Cross, R.A.
Hancock, Miss E.
Hulme, B.
Medlycott, L.F.
Norton, R.
Owen, B.J.
Pocock, Dr R.L.
Reynolds, F.
Simmons, Dr S.A.
Stamper, P.J.
Stuffins, L.N.
Sulway, Mrs K.J.
Taylor, Mrs & Mrs C.B.*

DIVISIONS SEVEN AND EIGHT

EAST MIDLANDS

Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire,
Northamptonshire, Nottinghamshire

Eastern

Essex, Norfolk, Suffolk

Chairman: ~~Dr. D. Davies~~

K.R. ENDERBY ✓

Hon. Secretary: ~~E.F. Raven~~ **J. ROMAINE**

Housing and Environmental Services Department, Derby City
Council, The Council House, Corporation Street, Derby DE1 2FD
Telephone: 0332 ~~2931111 ext 650~~ **255228** ~~637~~

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(Midlands Region)
Coalite Group PLC
HM Inspectorate of Pollution
Incinerator Company Limited, The
Rolls-Royce Limited

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Bolsover District Council
Boston Borough Council
Cambridge District Council
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby City Council
Derbyshire Dales District Council
Erewash Borough Council
Fenland District Council
Gedling District Council
Harborough District Council
High Peak Borough Council
Hinckley & Bosworth Borough Council
Huntingdon District Council
Leicester City Council
Lincoln City Council
Mansfield District Council
Newark & Sherwood District Council
North East Derbyshire District Council

MEMBERSHIP LIST

SUSTAINING MEMBERS

HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Basildon District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council
Norwich District Council
Thurrock Borough Council

DIVISIONS NINE AND TEN

LONDON AND SOUTH EAST

East Sussex, Greater London, Hertfordshire, Kent, Surrey, West
Sussex

North Kesteven District Council
North West Leicestershire
District Council
Nottingham City Council
Peterborough City Council
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough Borough Council

CORPORATE MEMBERS

British Steel Corporation
Combustion Developments Ltd
Derbyshire College of H.E.
Leicester Polytechnic
Low Temperature Coal
Distillers Association
Solid Smokeless Fuels Federation

INDIVIDUAL MEMBERS

Brown, A.H.
Clayton, H.M.*
Davis, D.*
Hall, J.E.*
Haynes, F.
Hunt, Dr J.C.R.
Inglefield, Mrs E.J.
Raven, E.F. (Hon. Member)
Richards, Dr J.M.
Rigby, J.*
Riley, Dr R.V.*
Romaine, D.R.
Stringer, P.G.
Turner, Miss H.E.
Warren, R.S.
Weldon, Miss G.M.*

CORPORATE MEMBERS

Ford Motor Company Limited
Purified Air Limited

INDIVIDUAL MEMBERS

Armstrong, G.D.
Baker, N.
Dobson, P.F.
Fisher, J.G.
Goodfellow, J. (Hon. Member)
Jones, T.H.
Parsons, E.
Wade, J.T.
Waldron, Mr & Mrs R.A.*

CENTRAL SOUTHERN

Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire

Chairman: ~~A.J. Rees~~ **MRS P NAYLOR** ✓

Hon. Secretary: J.J. Beagle

19 Oxgate Gardens, Brent, London NW2 6EA

Telephone: 01 452 0203

MEMBERSHIP LIST**SUSTAINING MEMBERS**

BP Oil Limited
British Coal
British Gas
Central Electricity Generating Board
Environmental Protection Equipment
Manufacturers Association
Esso Petroleum Company Limited
HM Inspectorate of Pollution
Shell UK Ltd
Shell UK Oil Limited

LOCAL AUTHORITY MEMBERS

Adur District Council
Barking & Dagenham, London Borough of
Barnet, London Borough of
Bexley, London Borough of
Brent, London Borough of
Brighton Borough Council
Bromley, London Borough of
Broxbourne Borough Council
Crawley Borough Council
Dacorum Borough Council
Dartford Borough Council
Dover District Council
Ealing, London Borough of
Eastbourne Borough Council
Elmbridge Borough Council
Enfield, London Borough of
Epsom & Ewell District Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith & Fulham,
London Borough of
Harrow, London Borough of
Havering, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, Royal Borough of
Kingston upon Thames, Royal Borough of
Lewes District Council
Lewisham, London Borough of
London, City of
Merton, London Borough of
Richmond upon Thames, London Borough of
Rochester upon Medway Borough Council
Southwark, London Borough of
Surrey Heath Borough Council
Sutton, London Borough of
Tower Hamlets, London Borough of
Watford Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Association of Industrial Filter &
Separator Manufacturers
Bacon's School
Blue Circle Industries
British Steel Corporation
Canons Park Residents Association
Confederation of British Road
Passenger Transport
Finch, S.R. & Co
Guinness, Son & Co, Arthur
Imperial Chemical Industries
Institute of Petroleum, The
Institution of Environmental Health
Officers, The
Institution of Gas Engineers, The
Johnson Matthey Chemicals Limited
LSS-Rendel Scientific Services Ltd
North East Surrey College of Technology
Sabre Gas Detection Ltd
South East London Technical College
St Thomas Hospital Medical School
Department of Community Medicine
Sunbury Hill Clinic Ltd
Tace PLC
Tottenham College of Technology
UK Centre for Economic &
Environmental Development, The
Womens Solid Fuel Council

INDIVIDUAL MEMBERS

Ades, R.
Ball, D.J.
Baverstock, S.
Beaman, A.L.
Bean, G.
Beaumont, M.
Beckwith, P.
Bevington, C.F.P.
Boddy, J.H.*
Boehmer-Christiansen, Dr S.A.
Bond, Professor G.C.
Bourke, Miss. I.
Brown, H.
Butler, J.W.*
Chambers, Dr D.
Churchill, J.
Clancey, J.*
Clark, Dr A.
Clayton, Mrs S.
Colville, Lt. Commander R.F.*
Conrad, A.
Craxford, Dr S.R.*
Daly, C.R.
East, R.G.
Fernando, L.
Fitzgerald, N.
Fox, A.H.

Frankland, R.*
 Gandy, Miss R.L.*
 Garland, G.E.*
 Garland, P.R.
 Gascoigne, Mrs. J.L.
 Giblin, H.*
 Goldsmith, A.
 Grant, P.M.
 Green, Mrs S.M.
 Greenhead, S.*
 Hamilton, R.
 Harrop Dr D.O.
 Hubbard, B.
 Hunt, J.
 Iddison, T.H.*
 James, B.W.
 Johnson, Dr C.A.
 Kayes, Dr P.J.
 Kitchener Earl*
 Lees, B.*
 Lucas, Miss P.
 Marchant, K.
 McCrae, I.S.

McIntyre, Dr A.E.
 Melville, J.
 Menuhin, Yehudi
 Monro, Dr. Jean
 Perriman, R.J.
 Reed, L.E.
 Richardson, R.C.*
 Rodriguez, Mrs J.
 Scannell, K.
 Scorer, Professor R.S.*
 Shillito, D.
 Skea, Dr J.
 Smith, Mrs P.
 Southwood, R.M.
 Sullivan, Mrs C.A.
 Turner, D.W.
 Turner, Dr W.C.*
 Valentin, Dr F.H.
 Vine Mr & Mrs G.M.*
 Walder, A.N.
 Willcox, Mrs M.C.T.R.
 Wright, D.
 Wye, J.C.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas
 HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Cherwell District Council
 Fareham Borough Council
 Gosport Borough Council
 Luton Borough Council
 Mid Bedfordshire District Council
 Oxford, City of
 Portsmouth, City of
 Slough Borough Council
 Southampton, City of
 South Bedfordshire District Council
 South Oxfordshire District Council
 Wokingham District Council
 Wycombe District Council

CORPORATE MEMBERS

Calor Gas Ltd
 Darby Fuel Products Ltd
 Honeywell Control Systems Ltd

INDIVIDUAL MEMBERS

Bairds, J.M.
 Bartlam, J.N.*
 Billington, N.J.
 Brown, Dr R.S.
 Brown, T.*
 Colehan, J.E.*
 Elsom, D.M.
 Fleming, B.
 Fuller, H.I.*
 Hair, D.
 Jones, Dr P.W.
 Londy, C.
 Mayall, A.
 Miessler, E.*
 Miller, Dr Anne.
 Mundy, K.
 Nevard, L.*
 Pettit, K.
 Phillips, H.
 Robson, A.
 Scotson, D.A.*
 Tagg, J.R.*
 Verdin, A.
 Wythers, J.R.G.*

DIVISION ELEVEN

SOUTH WEST

Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset,
 Wiltshire

Chairman: H. Dawson

Hon. Secretary: K. Horton

Environmental Health Department, Woodspring DC, Town Hall,
 Weston-super-Mare, Avon

Telephone: 0934 ~~631701~~ 634509

MEMBERSHIP LIST

SUSTAINING MEMBERS

Avon County Council
British Coal
British Gas
Central Electricity Generating Board
(South West Region)
HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Bath, City of
Bristol, City of
Cheltenham Borough Council
Cotswold District Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Mendip District Council
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Teignbridge District Council
Thamesdown Borough Council
Torbay Borough Council
Wansdyke District Council
Woodspring District Council

DIVISION TWELVE

SOUTH AND MID WALES

Wales except Clwyd and Gwynedd

Chairman: Cllr. H. Thomas

Hon. Secretary: T. Jones

28 Maes-y-celyn, Griffithstown, Pontypool, Gwent

Telephone: 06338 38444

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
HM Inspectorate of Pollution
Mid Glamorgan County Council

LOCAL AUTHORITY MEMBERS

Bleanau Gwent Borough council
Cardiff, City of
Cynon Valley Borough Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Merthyr Tydfil Borough Council
Neath Borough Council
Newport Borough Council
Port Talbot Borough Council
Preseli Pembrokeshire District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely Borough Council
Torfaen Borough Council
Vale of Glamorgan Borough Council
West Glamorgan County Council

CORPORATE MEMBERS

Cornwall Noise Advisory Committee
Cross Manufacturing Ltd
Enviro Technology
Womens Solid Fuel Council

INDIVIDUAL MEMBERS

Bailey, B.J.
Baxter, T.*
Birkin, M.
Briggs, E.B.
Clarke, B.
Dickerson, D.S.
Edwick, B.H.
Garrigar, O.L.
Hannabuss, G.H.*
Jarman, R.T.
Merrick, R.J.
Parker, Professor R.A.
Price, B.
Redston, R.V.*
Robertson, D.S.
Thomas, R.V.
Upton, B.C.*
Vick, J.L.
Wade, Dr R.J.

CORPORATE MEMBERS

British Steel Corporation
(Welsh Division)
South Glamorgan Institute of Higher
Education
Swansea Port Health Authority

INDIVIDUAL MEMBERS

Dearden, J.*
Evans, J.
Jones, L.G.
Parry, J.W.
Thayer, J.M.
Thomas, A.O.

SMOKE CONTROL AREAS

Programmes and Progress

The following lists contain the names of the local authority areas as of April 1st 1974. Due to the financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1987 and some authorities' figures will have changed since that date.

The fourth column for each local authority shows the percentage of the total Council area covered by smoke control. It should be remembered, however, that some predominantly rural authorities will show a low figure in this column even though the proportion of premises covered may be high.

The British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland,	Cumbria,	Durham,
	Northumberland,	Tyne & Wear.	
NORTH WEST	Cheshire,	Greater Manchester,	Lancashire,
	Merseyside.		
YORKSHIRE & HUMBERSIDE	Humberside,	North Yorkshire,	South West
	Yorkshire,		
	Yorkshire.		
WEST MIDLANDS	Hereford and	Worcester,	Salop,
	Staffordshire,	Warwickshire,	West
	Midlands.		
EAST MIDLANDS	Derbyshire,	Leicestershire,	Lincolnshire,
	Northamptonshire,		Nottinghamshire,
	Cambridgeshire,	Norfolk,	Suffolk.
GREATER LONDON			
SOUTH EAST	Bedfordshire,	Berkshire,	Buckinghamshire,
	East Sussex,	Essex,	Hampshire,
	Hertfordshire,	Kent,	Oxfordshire,
	West Sussex.		Surrey,
SOUTH WEST	Avon,	Cornwall,	Devon,
	Dorset,	Gloucester-	
	shire,	Somerset,	Wiltshire.
WALES	Clwyd,	Dyfed,	Gwent,
	Gwynedd,	Mid	
	Glamorgan,	Powys,	South Glamorgan,
	West		Glamorgan.
SCOTLAND			
NORTHERN IRELAND			

KEY c. = approx; comp. = completed; n/k = not yet known;
susp. = (programme) suspended; Cld = cancelled; - = none.

Figures and names of authorities asterisked (*) indicate completed programmes.

	Target Date	Final Acreage	Acreage (In Op) 1987	% of total covered	Premises (In Op)
NORTHERN					
Allerdale DC (Cumbria)	1993	8,816	1,413	0.4%	4,348
Blyth Valley BC (Northumberland)	1992	17,649	3,058	22%	129,78
Carlisle City (Cumbria)	Susp.	6,092	898	0.3%	c.4,000
Castle Morpeth(B) (Northumberland)	* Comp.	2,534	2,534	.2%	6,155
Darlington(B) (Co. Durham)	1987	6,469	5,977	12%	29,667
Easington DC (Co. Durham)	1992	28,308	1,408	4%	5,685
Gateshead(MB) (Tyne & Wear)	1991	35,372	18,848	53%	67,747
Hartlepool(B) (Cleveland)	1982	9,073	9,073	39%	34,506
Langbaurn(B) (Cleveland)	1993	c.15,000	11,570	20%	41,804
Middlesbrough(B) (Cleveland)	* 1979	12,226	12,226	92%	54,100
Newcastle upon Tyne(M) (Tyne & Wear)	1978	34,500	34,500	100%	128,980
North Tyneside(MB) (Tyne & Wear)	1989	20,801	20,569	99%	72,592
Sedgefield DC (Co.Durham)	n/k	n/k	c.1,210	c.2%	c.5,909
South Tyneside(MB) (Tyne & Wear)	n/k	16,285	15,842	38%	58,506
Stockton-on-Tees (B) (Cleveland)	1988	16,225	15,842	38%	58,506
Sunderland(MB) (Tyne & Wear)	1993	11,314	7,633	30%	32,236

NORTH WESTERN

Blackburn DC (Lancs)	* Comp	13,043	13,043	38%	48,300
Bolton(MB) (Gtr.Manchester)	1993	34,527	25,577	74%	89,511
Burnley(B) (Lancs)	* 1980	23,700	23,700	82%	42,050
Bury(MB) (Gtr.Manchester)	Susp.	24,505	18,020	74%	51,924
Chorley(B) (Lancs)	n/k		353	2.2%	3,159
Crewe & Nantwich(B) (Cheshire)	No return received				
Ellesmere Port & Neston(B) Cheshire	* 1982	3,897		21%	23,114
Halton BC (Cheshire)	* 1980	17,121	17,121	90%	41,300
Hyndburn(B) (Lancs)	* 1980	16,611	16,611	92%	37,976
Knowsley(M) (Merseyside)	Susp.	n/k	6,359	88%	51,295
Lancaster City (Lancs)	n/k	n/k	3,402	6%	7,926
Liverpool(M) (Merseyside)	1992	27,819	24,178	87%	192,236
Macclesfield(B) (Cheshire)	-	-	304	0.3%	2,670
Manchester City(M) (Gtr.Manchester)	* 1985	28,723	28,723	100%	213,468
Oldham(M) (Gtr.Manchester)	* 1987	21,361	21,361	60%	102,788
Pendle DC (Lancs)	Comp	6056	6,056	36%	29,500
Preston(B) (Lancs)	* 1985	8,347	8,347	26%	48,675
Ribble Valley(B) (Lancs)	-	n/k	1796	1.5%	839
Rochdale(M) (Gtr.Manchester)	1990	33,358	25,438	64%	70,932
Rossendale(B) (Lancs)	1993	34,170	15,296	45%	17,093
St. Helens(MB) (Merseyside)	1990	32,980	29,313	89%	64,456
Salford City(M) (Gtr.Manchester)	* 1978	23,942	23,942	100%	103,200
Sefton(M) (Merseyside)	n/k	14,742	2,587	6%	13,463
South Ribble(B) (Lancs)	2000	27,454	5,992	22%	17,211
Stockport(MB) (Gtr.Manchester)	n/k	31,147	24,707	79%	102,645
Tameside(MB) (Gtr.Manchester)	* 1984	25,500	25,500	100%	100,711

66 — Section 5

	Target Date	Final Acreage	Acreage (In Op) 1987	% of total covered	Premises (In Op)
Trafford(MB) (Gtr.Manchester)	* 1980	26,219	26,219	100%	95,020
Vale Royal DC (Cheshire)	-	-	6,928	7%	10,422
Warrington(B) (Cheshire)	* 1983	41,350	41,350	95%	68,429
West Lancashire DC (Lancs)	Clld	n/k	7,170	9%	14,239
Wigan (MB) (Gtr.Manchester)	n/k	49,160	27,794	57%	73,255
Wirral(M) (Merseyside)	n/k	38,622	22,730	59%	96,241

YORKSHIRE & HUMBERSIDE

Barnsley(MB) (S.Yorks)	1993	c.33,000	18,317	23%	40,338
Bradford City(M) (W.Yorks)	-	91,444	50,838	56%	180,106
Calderdale(MB) (W.Yorks)	* 1980	40,285	40,285	45%	77,213
Chester-le-Street DC (Durham)	1993	-	-	-	-
Craven DC (N.Yorks)	Susp.	19,529	8,498	3%	8,205
Derwentside DC (Co.Durham)	n/k	66,944	834	1.3%	3,978
Doncaster (MB) (S.Yorks)	1993	142,600	26,160	18%	58,146
Glanford(B) (Humberside)	n/k	139,346	15,264	11%	5,135
Harrogate(BC) (N.Yorks)	1992	8,500	3,643	1.1%	19,350
Kingston-upon-Hull City (Hu.side)	2000	17,612	8,786	50%	63,621
Kirklees(MB) (W.Yorks)	Susp.	102,403	37,033	36%	115,627
Leeds City(M) (W.Yorks)	n/k	n/k	75,605	54%	223,500
Rotherham(M) (S.Yorks)	1992	69,875	27,857	40%	56,208
Ryedale(DC) (N.Yorks)	* -	261	261	0.07%	3,130
Selby(DC) (N.Yorks)	1996	10,000	2,161	7%	4,425
Scunthorpe(B) (Humberside)	1981	8,337	8,337	100%	24,170
Sheffield City (M) (S.Yorks)	1982	58,048	58,048	64%	222,338
Wakefield City (M) (W.Yorks)	1998	82,328	26,600		54,741
York City (N.Yorks)	1990	7,400	5,401	73%	26,867

WEST MIDLANDS

Birmingham City (W.Midlands)	* 1986	65,309	63,634	97%	338,027
Coventry City(M) (W.Midlands)	* 1984	9654	9654	100%	119,421
Dudley (MB) (W.Midlands)	1988	24,202	23,200	96%	128,635
East Staffordshire DC (Staffs)	1992	2,000	1,333	75%	14,167
Lichfield DC (Staffs) ²	1992	3034	2420	7.5%	12,793
Newcastle under Lyme (Staffs)	n/k	n/k	6189	12%	28,450
North Shropshire DC (Salop)	Susp	c.1,310	512	0.3%	1,640
North Warwickshire(B) (Warwicks)	1992	10,852	8821	12%	12,352
Nuneaton & Bedworth(B) (Warwicks)	1997	7926	3795	48%	22,915
Rugby(B)(Warwicks) ³	* 1979	7,010	8,112	9%	22,535
Sandwell(MB) (W.Midlands)	Susp.	21,150	6,536	31%	34,446
Shrewsbury & Atcham(B) (Salop)	No return received				
Solihull(MB) (W.Midlands)	1996	44,495	8,776	20%	44,531
Staffordshire Moorlands DC (Staffs)	2000	4,000	946	.7%	2,975
South Staffordshire DC (Staffs)	Susp.	n/k	5,206	5%	3,066

	Target Date	Final Acreage	Acreage (In Op) 1987	% of total covered	Premises (In Op)
Stoke on Trent City (Staffs)	1989	22,949	14,185	62%	61,993
Tamworth(B) (Staffs)	Susp.	7,648	4,830	63%	22,368
Walsall (MB) (W.Midlands)	1990	26,266	19,166	73%	72,174
Warwick DC (Warwicks)	* 1983/4	6,757	6,757	10%	36,002
Wolverhampton(MB) (W.Midlands)	1992	17,031	12,224	71%	69,760
Worcester City	1992	3,334	1250	38%	12,726
Wrekin DC (Salop)	Susp.	19,311	9,159	13%	19,966
Wyre Forest DC (Hereford & Worcester)	-	-	639	1.32%	6641

EAST MIDLANDS

Amber Valley DC(Derbys)	1990	19,300	3,971	6%	8,519
Ashfield DC (Notts)	1995	110, 10	5,419	50%	25,372
Bassetlaw DC (Notts)	1993	9956	7787	5%	17,134
Blaby DC (Leics) ⁴	* 1987	3790	3790	29%	22,243
Bolsover DC (Derbys)	2005	39,877	2,354	6%	4,745
Broxtow DC (Notts)	1986	14,868	14,868	74%	37,606
Chesterfield(B) (Derbys)	* 1985	16,264	16,264	100%	39,600
Corby DC (N'hants)	Susp.	n/k	2,540	13%	10,957
Derby(B) (Derby)	* 1985	19,282	19,282	100%	90,233
Erewash(B) (Derbys)	2002	7,577	3378	13%	13,890
Gedling(B) (Notts)	1989	2,126	2098	8%	28,761
High Peak DC (Derbys)	* Comp	4,114	4,114	3%	14,148
Leicester City (Leics)	* 1975	17,232	17,232	100%	70,338
Lincoln City (Lincs)	* Comp	8,828	8,828	100%	40,275
Mansfield DC (Notts)	1993	19,007	10,444	55%	31,925
Newark & Sherwood DC (Notts)	1993	7,106	2941	2%	6,104
North East Derbyshire DC	n/k	68,485	20,541	30%	27,369
North Kesteven DC (Lincs)	Susp.	-	-	-	-
Northampton(B) (N'hants)	Susp.	19,928	19,928	41%	20,000
Nottingham City (Notts)	1992	18,364	13,172	72%	59,272
Oadby & Wigston(B) (Leics)	Susp.	2,448	145	2%	903
Rushcliffe(B) (Notts)	* 1983	3229	3229	3%	13,053
South Derbyshire DC (Derbys)	n/k	n/k	1,716	2%	4,253
South Kesteven DC (Lincs)	n/k	n/k	3706	1.6%	13,754

EAST ANGLIA

Cambridge City (Cambs)	Susp.	k/n	1,446	14%	2,703
King's Lynn & West Norfolk (B) (Norfolk)	-	841	841	0.2%	4,003
Norwich City (Norfolk)	Susp.	9,632	1,535	16%	3,362
Peterborough City (Cambs)	-	82,424	5,702	7%	21,646

68 – Section 5

	Target Date	Final Acreage	Acreage (In Op) 1987	% of total covered	Premises (In Op)
LONDON BOROUGHS					
Corporation of London	* 1955	678	100%	100%	n/k
Barking	* 1985	8,886	8,886	100%	70,118
Barnet	No return received				
Bexley	* 1976	15,847	15,847	100%	105,113
Brent	* 1975	10,934	10,934	100%	108,418
Bromley	* 1979	29,600	29,600	79%	c.137,000
Camden	* 1968	3,744	3,744	70%	88,706
Croydon	Susp.	21,395	13,164	62%	c.106,000
Ealing	* 1972	13,707	13,707	100%	126,370
Enfield	1977	20,061	20,061	100%	89,187
Greenwich	* 1972	11,724	11,724	100%	108,711
Hackney	* 1967	4,814	4,814	100%	n/k
Hammersmith & Fulham	* 1967	3,988	3,988	100%	73,000
Haringey	* 1970	7,486	7,486	100%	84,452
Harrow	* Comp	12,553	12,553	100%	72,892
Havering	* 1979	29,650	29,650	100%	100,700
Hillingdon	* Comp	27,260	27,260	100%	105,223
Hounslow	* 1972	14,460	14,460	100%	94,967
Islington	* 1969	3,679	3,679	100%	c.82,000
Kensington & Chelsea (Royal)	* Comp	2,950	2,950	100%	25,288
Kingston upon Thames (Royal)	* 1980	9,135	9,135	100%	55,738
Lambeth	* 1978	6,738	6,738	100%	c.106,400
Lewisham	* Comp				
Merton	* 1977	9,380	9,380	100%	65,800
Newham	* 1981/2	8,985	8,985	100%	87,211
Redbridge	* Comp	5,650	5,650	100%	76,660
Richmond upon Thames	* Comp	12,866	12,866	92%	88,914
Southwark	1988	7,114	6,276	88%	116,300
Sutton	* Comp	10,732	10,732	100%	83,921
Tower Hamlets	* 1968	4,875	4,875	100%	n/k
Waltham Forest	* Comp	9,804	9,804	100%	86,900
Wandsworth	* Comp	8,860	8,860	100%	121,407
Westminster City	* 1970	2,880	2,540	88%	116,300

SOUTH EAST

Aylesbury Vale DC (Bucks)	Susp.	3594	913	0.4%	5200
Basildon DC (Essex)	Susp.	n/k	4,528	17%	21,682
Bracknell DC (Berks)	Susp.	-	3,811	14%	27,811
Brentwood DC (Essex)	-		277	0.6%	2,856
Brighton(B) (E. Sussex)	Susp.	14,613	1,472	10%	24,392
Broxbourne(B) (Herts)	* 1988	5,222	3,639	100%	27,678
Canterbury City (Kent)	u/k	77,207	2,625	.34%	2965
Crawley(B) (W.Sussex)	No return received				
Dacorum DC (Herts)	-	3,731	3,731	7%	15,000
Dartford (B) (Kent)	* Comp.	17,267	17,267		31,035

	Target Date	Final Acreage	Acreage (In Op) 1987	% of total covered	Premises (In Op)
Elmbridge (B) (Surrey)	Comp.	2	2	.0001%	
Epping Forest DC (Essex)	No return received				
Gillingham(B) (Kent)	1979	11,023	11,023	100%	42,252
Gravesham(B) (Kent)	1985	4,532	4,532	18%	25,278
Guildford(B) (Surrey)	Susp.	n/k	2,885	4%	10,517
Harlow DC (Essex)	1965	6,320	6,320	100%	28,000
Hertsmere DC (Herts)	-	24,169	2,121	9%	7,913
Luton(B) (Beds)	* 1979	10,657	10,657	100%	73,290
Milton Keynes(B) (Bucks)	Susp.	7,862	7,862	10%	24,507
North Bedfordshire(B) (Beds)	1987	5,350	4,800	4%	20,526
North Hertfordshire DC (Herts)	Clld	-	1,341	1%	5,000
Oxford City (Oxfordshire)	Susp.	1,534	941	61%	34,881
Portsmouth City (Hants)	Susp.	9,299	1,556	17%	19,039
Reading(B) (Berks)	None	4,044	2,383	58.92%	32,560
Rochester upon Medway (Kent)	n/k	n/k	6,383	16%	19,974
Sevenoaks DC (Kent)	Clld	-	1,341	1%	c.3,684
Slough(B) (Berks)	1988/9	2,757	2,232	81%	27,489
South Oxfordshire DC	1988	507	-	.3%	-
Southampton City (Hants) ⁵	None	4,254	4,254	35%	30,892
Spelthorne(B)(Surrey)	No return received				
Stevenage(B) (Herts)	* 1982	6,257	6,257	100%	39,004
Thurrock(B) (Essex)	Susp.	-	10,130	25%	22,761
Watford(B) (Herts)	* 1979	5,275	5,275	100%	28,220
Windsor & Maidenhead Royal B(Berks)	* Camp	831	831	2%	2,655
Wycombe DC (Bucks)	* Camp	3,818	3,818	5%	21,500

SOUTH WEST

Bath City (Avon)	1991	7,091	971	14%	8,683
Bristol City (Avon)	1988	26,516	227,30	86%	142,284
Cheltenham (B) (Gloucs)	1996	3,455	398	12%	3,720
Exeter City (Devon)	-	4,388	2,630	60%	16,651
Gloucester City (Gloucs)	No return received				
Kingswood (B) (Avon)	-	-	13	.1%	130
Northavon DC	1991	7,000	1,180	-	1,725

WALES

Alyn & Deeside (W) (Clwyd)	-	-	50	0.1%	448
Delyn (B) (Clwyd)	* 1983/4	486	486	0.7%	816
Newport (B) (W) (Gwent)	n/k	n/k	67	.1%	1,178
Wrexham Maelor(B) (W) (Clwyd)	-	2916	2166	2%	10,390

70 — Section 5

	Target Date	Final Acreage	Acreage (In Op) 1987	% of total covered	Premises (In Op)
SCOTLAND					
Bearsden & Milngavie (Strathclyde)	-	-	8,800	98%	15,550
Clackmannan (Central)	n/k	39,600	642	1.6%	3,881
Clydebank (Strathclyde)	* Comp	9,240	9,240	100%	19,393
Cunninghame DC (Irvine)	1989	816	609	.3%	2,036
Dumbarton (Strathclyde)	2005	11,787	4,301	4%	11,126
Dundee City (Tayside)	1981	12,654	12,654	22%	69,778
Dunfermline (Fife)	Susp	-	931	1%	5,309
East Kilbride DC	n/k	10,250	5,000	15%	25,000
Edinburgh City (Lothian)	1995	64,000	26,699	41%	95,306
Ettrick & Lauderdale ⁶	-	-	1,766	0.5%	6,630
Falkirk (Central)	n/k	n/k	15,470	21%	35,792
Glasgow City (Strathclyde)	1993	5,001	3,800	76%	275,780
Hamilton (Strathclyde)	n/k	32,378	4,167	13%	15,737
Inverclyde (Strathclyde)	n/k	n/k	1,789	5%	8,869
Kilmernock & Loudoun (Strathclyde)	-	-	101	0.1%	577
Kirkcaldy (Fife)	n/k	61,366	5,839	10%	7,083
Kyle & Carrick	1974	98	98	0.03%	275
Monklands (Strathclyde)	2000	40,500	6,241	15%	21,581
Motherwell (Strathclyde)	-	-	878	2%	6,518
Nithsdale (Dumfries & Galloway)	n/k	-	2081	48%	3,356
Renfrew (Strathclyde)	No return received				
Roxburgh (Borders)	-	1,240	425	0.1%	1,900
Stirling (Central) ⁷	-	-	200	0.2%	c.2,000 ¹
Strathkelvin (Strathclyde)	n/k	64,000	5,156	13%	c.10,000
West Lothian (Lothian)	-	103,401	6,121	6%	15,155

NORTHERN IRELAND

Antrim (Co. Antrim)	* 1976	740	740	0.6%	7,096
Ards (B) (Co. Down)	Clld	-	105	0.1%	823
Armagh DC (Co. Armagh)	-	-	5	-	96
Ballymena(B) (Co. Antrim)	Susp.	-	325	0.9%	890
Belfast City (Co. Antrim & Co. Down)	1996	26,218	7,464	28%	51,035
Castlereagh DC (Co. Down)	-	6,338	5,428	26%	18,150
Craigavon(B) (Co. Armagh)	No return received				
Down (Co. Down)	n/k	n/k	482	c.1%	1,056
Larne(B) (Co. Antrim)	n/k	n/k	5	0.01%	192
Londonderry City (Londonderry)	No return received				
Newtownabbey (Co. Antrim)	n/k	n/k	1,776	5%	7,084
North Down (B) (Co. Down)	-	-	176	0.9%	765
Strabane (Co. Tyrone)	* 1974	54	54	-	750

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Entries in the Directory are classified under the following headings:

Arts, Architecture & Town Planning	page 71
Clean Air	page 72
Fuel and Energy	page 74
General	page 76
General Environmental & Conservation Bodies	page 76
Government and Local Bodies	page 78
Health	page 79
Industry, Instruments & Standards	page 80
Iron & Steel	page 81
Meteorology	page 81
Noise	page 81
Transport	page 82

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Telex: 298404
Fax: 01-736 1183

**TRANSPORT AND ROAD RESEARCH
LABORATORY**

Department of Transport,
Old Wokingham Road,
Crowthorne, Berkshire RG11 6AU
Tel: Crowthorne (0344) 773131

TRANSPORT TRUST, THE

The National Charity for the
Preservation of Britain's
Transport Heritage,
Marylebone Station Offices,
London NW1 6JR
Tel: 01-262 8864

TRANSPORT 2000

(national environmental
transport pressure group)
Walkden House,
10 Melton Street,
Euston,
London NW1 2EJ
Tel: 01-388 8386

DIRECTORY OF FOREIGN ORGANISATIONS

ARGENTINA

Asociacion Argentina Contra la Contaminacion del Aire (AACCA)
25 de Mayo 749 - 1o piso (1002),
Buenos Aires, Argentina.
President: Dr. R.M. Rodriguez.
Tel: 312-1015; 394-3984/2374/6281

AUSTRALIA

Clean Air Society of Australia
and New Zealand, P.O. Box 191,
Eastwood, New South Wales 2122.
Secretary: R.W. Manuell.
Tel: 02 236 2680

BELGIUM

SCK/CEN Environmental Program
Boeretang 200,
B-2400 MOL,
Belgium.
Dr. H.J. Peperstraete.
Tel: (014) 31.18.01

CANADA

Environment Canada,
Terrasses de la Chaudiere,
10 Wellington Street,
Ottawa, Ontario, K1A 0H3,
Canada.

CHINA (TAIWAN)

Environmental Protection
Society of the Republic of
China,
10th floor (back),
201 Tun Hua North Road,
Formosa Plastic Building,
Taipei, Taiwan 104,
Republic of China.
President: Chin-Yuan Chuang

CYPRUS

The Association for the
Protection of the Environment,
PO Box 3810,
Nicosia.

DENMARK

Danish Association for the
Protection of Nature,
Noerregade 2,
DK 1165 Copenhagen K.

EUROPE

Commission of the European
Communities Information Office,
8 Storey's Gate,
London SW1P 3AT.
Tel: 01-222 8122

European Environmental Bureau,
29 Rue Vautier,
B-1040 Bruxelles,
Belgium.
Secretary: Ernst Klatte
Tel: 010 322 647 0199

European Parliament Information
Office,
2 Queen Anne's Gate,
London SW1H 9AA.
Tel: 01-222 0411

FINLAND

Finnish Air Pollution Prevention
Society, P.B. 335
00131 Helsinki
Chairman: Ms. Eija Lumme

FRANCE

Association pour la Prevention
de la Pollution Atmospherique,
M. Pierre Gaussens, 58 rue
du Rocher, 75008 Paris.
Tel: (1) 42936207

GERMAN DEMOCRATIC REPUBLIC

Abgasprufstelle der DDR, Rudower
Chaussee 6, 1199 Berlin.

GERMANY, FEDERAL REPUBLIC OF

Verein Deutscher Ingenieure
(VDI) - Kommission Reinhaltung
der Luft, Postfach 1139,
Graf-Recke-Str, 84,
D-4000 Dusseldorf 1.
Secretary: Dr. Ing. Klaus Grefen.
Tel: 0211 62141

GREECE

Hellenic Association on
Environmental Pollution (ERYEA)
Xenofondos 14,
105.57 Athens.
President: John G. Papaioannou.
Tel: (30) (1) 3245747 or 3243534

HUNGARY

National Authority for
Environment Protection and
Nature Conservation,
PO Box 732,
H-1365 Budapest.

ICELAND

Icelandic Association of
Nature Conservation Societies,
Sundstraeti 24,
Isafiroi.

INDIA

Indian Association for Air
Pollution Control,
School of Environmental Sciences,
Jawahar Lal Nehru University,
New Delhi - 110067.
President: Prof. J.M. Dave.
Tel: 652282/652114

ISRAEL

The Public Council for the
Prevention of Noise and Air
Pollution in Israel (MALRAZ)
P.O. B. 23047, Tel-Aviv 61230,
Israel.
Chairman: Y. Beerli.

ITALY

Comitato di Studio per
l'Inquinamento Atmosferico
within Associazione
Termotecnica Italiana
c/o ISMAR, Via Assarotti 15/8
16122 - Genova.
President: Prof. G. Ferraiolo.
Vice President: Prof. G. Zerbo.
Tel: 010 887766

JAPAN

Japanese Union of Air Pollution
Prevention Associations -
JUAPPA,
c/o Industrial Pollution Control
Association of Japan,
Shuwa Toranomon No. 3 Bldg.,
21-8 Toranomon 1 chome, Minato-ku,
Tokyo 105.
Vice President: N. Suzuki.
Tel: 580-8808

KOREA

The Korea Air Pollution
Research Association,
280-17, Bulkwang-Dong,
Eunpyung-Gu,
Seoul 122.
President: Dr. Chul Whan Cha.
Tel: 822 385-5711

MALAYSIA

Environmental Protection Society
Malaysia (EPSM),
Peti Surat 382, Petaling Jaya,
Malaysia.
Tel: 03. 757767.

MALTA

Society for Clean Air, 8-10
Civic Centre, Senglea, Malta.

MEXICO

Centro de Ciencias de la
Atmosfera, Universidad Nacional
Autonoma de Mexico, Delegacion
Coyoacan, Codigo Postal 04510,
Mexico DF.
Secretary: Dr. Humberto Bravo.

NETHERLANDS

Society for Clean Air in
the Netherlands (CLAN)

PO Box 186,
2600 AD Delft.

President: Dr. Louis A. Clarenburg

(CLAN is the Secretariat for the
8th World Clean Air Congress)

NEW ZEALAND

New Zealand Clean Air Society
Inc., P.O. Box 2363,
Christchurch.

The Commissioner for the
Environment, P.O. Box 10241,
Wellington.

NORWAY

Norwegian Clean Air Association
(Ren Luft Foreningen - RLF)

Kronprinsensgate 17,
N-0251 Oslo 2.

Secretary: Vigdis Ekeberg
Tel: 02-41 87 35.

PAPUA NEW GUINEA

Dept. of Environment and
Conservation, PO Box 6601,
Boroko,
Papua New Guinea.

PERU

Asociacion Peruana Para el
Control de la Contaminacion
del Aire (APPCCA)

Casilla No. 14.0246

Lima 14

Peru.

President: M.A. Vizcarra Andreu

PORTUGAL

Secretaria do Estado do Ambien
e Recursos Naturais,

Rua do Seculo, 51,

1200 Lisboa. (Government Dept.)

SAUDI ARABIA

Meteorology and Environmental
Protection Administration

(MEPA), PO Box 1358,

Jeddah 21431,

Saudi Arabia.

President: R.M. Al-Romaih

Tel: 02-6512312

SINGAPORE

Environmental Engineering
Society of Singapore,
Clean Air Section,

c/o Faculty of Engineering,
National University of Singapore,
Kent Ridge Campus,
Singapore 0511.

Prof. K.K. Chin/Dr.S.K. Chou

Tel: 775 6666 ext. 406

772 2167/772 2215

SOUTH AFRICA

National Association for Clean
Air, P.O. Box 5777,

Johannesburg 2000.

Director: Gordon H. Grange.

Tel: Johannesburg (011) 728 2418

SWEDEN

National Swedish Environment
Protection Board, Box 1302,

S-171 25 Solna.

SWITZERLAND

Schweiz. Vereinigung fur
Gesundheitstechnik (SVG),

Postfach 305,

CH-8035 Zurich.

Contact: W. Hess.

THE UNITED NATIONS ECONOMIC
COMMISSION FOR EUROPE

Environment and Human Settle-
ments Division, Palais des
Nations, 1211 Geneva 10,
Switzerland.

Director: C. Lopez-Polo.

UNITED NATIONS ENVIRONMENT
PROGRAMME

17 rue Margueritte,
75017 Paris,
France.
Tel: 47 66 16 40
Telex: 650273

U.S.A.

APCA – The Association
Dedicated to Air Pollution
Control and Hazardous Waste
Management,
P.O. Box 2861,
Pittsburgh, P.A. 15230.
Executive Vice President:
Steve Hart.
Tel: 412 232 344

USSR

All Russian Society for
Conservation of Nature,
Proezd Kuibyshev 3,
Moscow K-12.

YUGOSLAVIA

Yugoslav Union of Air
Pollution Prevention
Associations P.O. Box 79,
71001 Sarajevo.
Secretary: Dr. A. Knezevic.

WORLD HEALTH ORGANISATION
DIVISION OF ENVIRONMENTAL
HEALTH

Avenue Appia, 1211 Geneva 27,
Switzerland.
Dr. H.W. de Koning.

GUIDE TO FILMS & FILMSTRIPS

Following is a list of sources for films, filmstrips, and slides on various pollution and environmental topics.

ACID RAIN INFORMATION CENTRE

Dept. of Environmental and
Geographical Studies
Manchester Polytechnic
John Dalton Extension
Chester Street
Manchester M1 5GD
Tel: 061-228 6171
(Polytechnic Switchboard)

AEROFILMS LTD

Gate Studios
Station Road
Boreham Wood
Herts. WD6 1EJ
Tel: 01-207 0666
Fax: 01-207 5433

BARRY WILES FILMS

London Road Trading Estate
Sittingbourne
Kent ME10 1NQ

BRITISH MEDICAL ASSOCIATION

BMA/BLAT Film Library
BMA House
Tavistock Square
London WC1H 9JP
Tel: 01-388 7976

BRITISH PETROLEUM

The BP Film Library
15 Beaconsfield Road
London NW10 2LE
Tel: 01-451 1129

CAMERA TALKS LTD

197 Botley Road
Oxford OX2 0HE
Tel: (0865) 726625
Telex: 837416 Oxstat G

CONCORD FILMS COUNCIL LTD

201 Felixstowe Road
Ipswich
Suffolk IP3 9BJ
Tel: (0473) 76012

DIANA WYLLIE LTD

Unit 8, Peverel Drive
Granby
Milton Keynes MK1 1NL

DRAKE EDUCATIONAL PRODUCTIONS

St. Fagan's Road
Fairwater
Cardiff CF5 3AE

ELECTRICITY COUNCIL FILM LIBRARY

30 Millbank
London SW1P 4RD
Tel: 01-834 2333

GUILD SOUND & VISION LTD

6 Royce Road
Peterborough PE1 5YB
Tel (0733) 315315

INTERNATIONAL CENTRE FOR CONSERVATION EDUCATION

Greenfield House
Guiting Power
Cheltenham
Glos. GL54 5TZ
Tel: (045 15) 549
Slide packs with cassettes:

LOUGHBOROUGH UNIVERSITY ENVIRONMENTAL FILMS

Sonia Withers
Centre for Extension Studies

88 – Section 7

Loughborough University of
Technology
Loughborough
Leicestershire LE11 3TU
Tel: (0509) 263171 ext. 213
and 249

MOTHERWELL BRIDGE TACOL LTD

Green Dragon House
64/70 High Street
Croydon
Surrey CR0 1NA
Tel: 01-686 6917 or (0698) 66111

NATIONAL COAL BOARD

Film Branch
Hobart House
Grosvenor Place
London SW1X 7AE
Tel: 01-235 2020
Telex: 882161

PICTORIAL CHARTS EDUCATIONAL TRUST

27 Kirchen Road
London W13 0UD
Tel: 01-567 9206 & 5343

SHEFFIELD PUBLICITY OFFICE

Town Hall
Sheffield S1 2HH
Tel: (0742) 734068 or 734130

SHELL FILM LIBRARY

Unit 2, Cornwall Works
Cornwall Avenue
Finchley
London N3 1LD
Tel: 01-349 0025

VISCOM LTD

Film & Video Library
Parkhall Road Trading Estate
London SE21 8EL
Tel: 01-761 3035

DIRECTORY OF CONSULTANTS

The consultancies listed in this section have been classified under the following broad categories to indicate their main areas of interest:

- Air
- Energy
- Noise & Vibration
- Odours
- Wastes
- Water

AIR

Analysis for Industry
 Association of Industrial
 Filter & Separator
 Manufacturers
 BCRA Scientific & Technical
 Services Ltd
 Berridge Environmental
 Laboratories Ltd
 Calvert Stinton & Associates
 Casella London Ltd
 CPA Environmental Control
 Associates
 Dr S R Craxford
 Cremer & Warner
 Dames & Moore International
 Environmental Resources Ltd
 Huntingdon Research Centre Ltd
 Lyne, Martin & Radford
 Midland Environment Ltd
 Pollution Research Unit, UMIST
 SYPOL Noise & Pollution
 Consultants Ltd
 Thomson Laboratories
 Dr F Valentin
 Warren Spring Laboratory

ENERGY

Atkins & Downie
 Calvert Stinton & Associates
 Environmental Resources Ltd
 Metal Box Engineering
 Warren Spring Laboratory

NOISE & VIBRATION

Acoustic Technology Ltd
 Acoustical Investigation &
 Research Organisation Ltd
 Cremer & Warner
 Environmental Resources Ltd
 Martec Environmental Engineering
 Midland Environment Ltd
 Noise Advisory Services
 SYPOL Noise & Pollution
 Consultants Ltd

ODOURS

BCRA Scientific &
 Technical Services Ltd
 Cremer & Warner
 Pollution Research Unit, UMIST
 Dr F Valentin
 Warren Spring Laboratory

WASTES

Berridge Environmental
 Laboratories Ltd
 Cremer & Warner
 Dames & Moore International
 Environmental Resources Ltd
 Midland Environment Ltd
 Pollution Research Unit, UMIST
 Warren Spring Laboratory

WATER

Analysis for Industry
 Association of Industrial
 Filter & Separator
 Manufacturers
 BCRA Scientific & Technical
 Services Ltd
 Berridge Environmental
 Laboratories Ltd
 Cremer & Warner
 Dames & Moore International
 Environmental Resources Ltd
 Midland Environment Ltd
 Pollution Research Unit, UMIST
 Warren Spring Laboratory

ACOUSTIC TECHNOLOGY LTD

58 The Avenue
Southampton
Tel: Southampton (0703) 37811
Telex: 47156 AT G

Independent firm of noise and vibration consultants established in 1970. There are over twenty well qualified specialists with a full range of instruments and laboratory facilities at their disposal. Services provided range from surveys and remedial recommendations for factory or community problems, to comprehensive impact studies and designs for major new projects.

ACOUSTICAL INVESTIGATION & RESEARCH ORGANISATION LTD (AIRO)

Duxon's Turn
Maylands Avenue
Hemel Hempstead
Herts HP2 4SB
Tel: Hemel Hempstead (0442) 47146
Telex: 945922 (for AIRO)
Fax: (0442) 56749

AIRO is an independent consultancy offering an impartial service for any scale of project in acoustics, noise and vibration control, and electroacoustic system design. With its own extensive laboratory facilities, including reverberant suites and anechoic chamber, AIRO provides a comprehensive service in all aspects of acoustic measurement, appraisal and design work.

ANALYSIS FOR INDUSTRY

Factories 2/3
Bosworth House
High Street
Thorpe-le-Soken
Essex CO16 0EA
Tel: Clacton-on-Sea 861714
(STD 0255)
Colchester 570315
(STD 0206)

Sampling, laboratory analysis and technical appraisal services – including: atmosphere testing

(eg office or factory working conditions), asbestos identification and estimation, monomer contents and other health and safety limits, water pollution, packaging safety, forensic work, expert witness. Full instrumentation (chromatography – GLC, TLC, HPLC, I-R visible and U-V spectroscopy, spectrophotometry, spectrography, polarography, etc.)

ASSOCIATION OF INDUSTRIAL FILTER & SEPARATOR MANUFACTURERS

20/21 Took's Court
London EC4A 1LB
Tel: 01-831 7581
Telex: 297510 VALOCK G
Provision of technical information and advice. The Association has produced 5 booklets about specific applications which are available from the above address at 25p each (postage & packing free). Also general information booklet about Association and members – free.

ATKINS & DOWNIE

26 Domine Lane
Rotherham S60 1QA
Tel: Rotherham (0709) 65151/2

Mechanical and Electrical Services Design Consultants
Specialising in: Technical and Economic Appraisals of Existing DH/CHP Plants. Investment Analysis of Capital Expenditure in Existing/Future Plant and Equipment. Chimney and Flue Gas Dispersal Investigations and Equipment Selection. Energy Conservation. Combined Heat and Power Technology. Terotechnology Energy Management and Waste Heat Recovery. Building Services Design Consultancy In:- Air Conditioning – Ventilation – Heating – Steam – Condense – District Heating – Process Services – Domestic Hot and Cold Water – Drainage and Sanitation – Fire Services and Sprinklers – Electric Lighting & Power-Lifts – Hoists – Sound

Attenuation - Security and Allied Services.

BCRA SCIENTIFIC & TECHNICAL SERVICES LTD

Mill Lane
Wingerworth
Chesterfield
Derbyshire S42 6NG
Tel: Chesterfield (0246) 209654

Sampling and specialist evaluation of carbonaceous materials; air pollution monitoring; dust/grit measurement in chimneys etc; personal sampling and occupational hygiene services. Also odour problem investigation including odour emission measurement, liquid effluent analysis and effluent treatability studies. Provision of basic process design data, plant troubleshooting and consultation with Water Authorities and Contractors.

BERRIDGE ENVIRONMENTAL LABORATORIES LTD

Robjohns Road
Chelmsford
Essex CM1 3TW
Tel: Chelmsford (0245) 268461
Telex: 995282 HBB G

Consulting services and analysis on solid, liquid and gaseous wastes. Environmental monitoring and management for industry. Asbestos identification and atmospheric fibre counting. Toxic and hazardous wastes a speciality.

CALVERT STINTON AND ASSOCIATES

118 Offington Avenue
Worthing
West Sussex BN14 9PR
Tel: Worthing (0903)

Consulting and technical services in chemistry and mechanical engineering including interdisciplinary areas such as fuels, exhaust emissions, engines, lubricants, and associated equipment. Projects undertaken

involve identifying existing or designing new analysis or testing methods, feasibility studies, market surveys and technical and commercial assessments or development where engineering has a chemical, safety or materials element.

CASELLA LONDON LTD

Belmont House
Vicarage Road
Edgbaston
Birmingham B15 3EZ
Tel: 021-454 9922
Telex: 261641
Fax: 021-454 1881

Services include

- Environmental Impact Assessment
- Investigation and Reclamation of Derelict and Contaminated Land
- Occupational Hygiene, Safety and Health
- The Atmosphere and Atmospheric Quality
- The Water Cycle and Water Quality
- The Built Environment

DR S.R. CRAXFORD, ISO

24 Field Lane
Letchworth
Herts SG6 3LE
Tel: Letchworth (0462) 685085

Specialist in air pollution.

CREMER & WARNER

140 Buckingham Palace Road
London SW1W 9SQ
Tel: 01-730 0777
Telex: 918666 (CRECON G)

An engineering, management and scientific consultancy founded in 1946 whose basic discipline of chemical engineering has developed over the past 20 years into the environmental and safety fields.

In Air Quality, Cremer and Warner have extensive expertise in dust, odours, noise and the full range

of air pollutants, ranging from air quality impact prediction, modelling and monitoring, evaluation of nuisances, planning and enforcement proceedings, to legislation and implementation of statutory regulations, technical aspects of emission control etc. Advice is given to the full range of process manufacturing and mineral industries, local authorities, many central government and international bodies etc.

Cremer and Warner are also fully involved in hazard and risk audits and analysis, waste disposal, water pollution and all aspects of environmental and safety work, including Litigation, Arbitration and Expert Witness activities.

DAMES & MOORE INTERNATIONAL
15-17 Church Street
Twickenham TW1 3NJ
Tel: 01- 891 6161
Telex: 929861

One of the world's largest environmental consultants who specialise in the control of contaminants in the natural environment. This includes:-

- Specialist atmospheric modelling techniques such as multisource assessments, gaussian puff and Monte Carlo simulations and real time emergency response systems.
- Ground and groundwater contamination delineation.
- Contamination remedial design and project supervision.
- Environmental auditing of industrial facilities.
- Environmental impact assessment of major projects.

Dames & Moore have worked in 119 countries of the world and have European offices in London, Manchester, Paris, Madrid and Frankfurt.

ENVIRONMENTAL RESOURCES LTD
106 Gloucester Place
London W1H 3DB
Tel: 01-486 1211
Telex: 296359 ERL G

Environmental Resources Limited specialises in environmental protection. This encompasses expertise in the natural sciences, engineering, economics and management. Particular services offered are:

- environmental impact and risk assessment for major projects
- air, water, noise pollution monitoring and dispersion modelling
- pollution control and solid waste disposal strategies
- contaminated land and rehabilitation of sites -
- litigation and public enquiry services
- economic, marketing, policy and legislation studies
- energy and resource planning
- occupational health and consumer products control

Multi-disciplinary services are offered to international bodies, national, regional and local government, industry and commerce.

HUNTINGDON RESEARCH CENTRE LTD
(DEPARTMENT OF INHALATION TOXICOLOGY)
Huntingdon
Cambs PE18 6ES
Tel: Huntingdon (0480) 890431
Telex: 32100

Huntingdon Research Centre is an independent contract research organisation offering confidential services and consultancy relating to the biological safety evaluation of chemicals - involving toxicity, carcinogenicity and mutagenicity tests, chemical and analytical services, etc. In particular, the Department of Inhalation Toxicology covers aspects of aerosol technology and inhalation toxicity testing.

LYNE, MARTIN & RADFORD (PUBLIC ANALYSTS)

The Public Analyst's Laboratory
220 Elgar Road
Reading RG2 0DG
Tel: Reading (0734) 868877
Telex: 265871 MONREF G
Quote 81: MMU075

Chemical, microbiological and microscopical examination of air samples, dusts and polluted atmospheres; particle size analysis; asbestos fibre counts.

MARTEC ENVIRONMENTAL ENGINEERING

Gerrard Place
Skelmersdale
Lancs WN8 9SJ
Tel: Skelmersdale (0695) 25121
Telex: 629535
(Also at London and Edinburgh)

An independent Company of noise and vibration consultants established in 1972. Specialist services include:
- advice to residents' associations about noise law and planning; and to manufacturing companies about noise induced hearing loss and environmental noise pollution.
- expert witnesses available with Court and Public Inquiry evidence
- problems tackled by surveys followed by issue of report with recommendations.

MIDLAND ENVIRONMENT LTD

Aston Science Park
Love Lane
Birmingham B7 4BJ
Tel: 021-359 0981
Telex: 334535 BMTECH G

Offers a professional scientific service for monitoring and assessment of environmental pollution. Principal services are: monitoring of air, water, soil and noise pollution; analysis and prediction of household, industrial and commercial wastes arisings; nature conservation strategies; computer

modelling and mapping of pollution and independent policy research. Midland Environment is a non-profit company limited by guarantee. Its objects are to conduct research and provide services aimed at improving the quality of the environment and improving the effectiveness of environmental policy.

NOISE ADVISORY SERVICES

3 Chapel Lane
Brockley
Nr. Bury St Edmunds
Suffolk IP29 4AS
Tel: Bury St. Edmunds (0284) 830605
Telex: 817223 CATELX G

Noise Advisory Services offer an acoustics consultancy service covering most aspects of acoustics and noise control. These services include environmental noise surveys, advice on buildings and architectural acoustics both at the initial design stage and remedial work, on-site acoustic testing, building services acoustic design, and industrial noise control. Noise Advisory Services also have considerable experience in off highway vehicle noise including constructional site equipment.

POLLUTION RESEARCH UNIT INDUSTRIAL CONSULTANCY SERVICES, UMIST

PO Box 88
Sackville Street
Manchester M60 1QD
Tel: 061-236 3311
Telex: 666094 UMIST G
(Contact: Dr. Mike Willison)

The Pollution Research Unit (PRU) undertakes consultancy work in the areas of air and water quality monitoring, waste water treatment, disposal and treatment of solid and toxic wastes, analysis of contaminated land and the risk of major hazards. The PRU is well equipped to offer a wide variety

of services in air quality monitoring. These cover particulate sampling (including gravimetric, particle size and comprehensive chemical analysis), microscopic examination of particulates, personal monitoring, site surveys, foul odour problems, aerial surveys using an instrumented light aircraft (in conjunction with Physics Dept., UMIST). Consultancies are usually arranged on a contract, daily or per-sample basis.

SYPOL NOISE & POLLUTION CONSULTANTS LTD

Market House
Market Square
Aylesbury
Bucks HP20 1TN
Tel: Aylesbury (0296) 5715
Telex: 837520 ADTRAV G

SYPOL Noise and Pollution Consultants Ltd is an independent company of consultants specialising in noise and air pollution problems over a wide range of this field. Activities include services for the monitoring of noise, asbestos, acid rain, smoke emission and all forms of atmospheric pollutants in occupational and environmental contexts.

THOMSON LABORATORIES

The Stocks
Cosgrove
Milton Keynes MK19 7JD
Tel: Milton Keynes (0908) 562925
Fax: 0908 561512

Other offices at:
5 Charlotte Road
London EC2A 3DH
Tel: 01-739 2314
Fax: 01-729 7895

219 Bury New Road
Whitefield
Manchester M25 6QW
Tel: 061-766 8248
Fax: 061-766 5987

4 Lynedoch Place
Glasgow G3 6AB
Tel: 041-332 2881
Fax: 041-332 3385

Thomson Laboratories is a major consultancy specialising in environmental pollution and occupational hygiene. With a nationwide network of branches, Thomson Laboratories provides a fast efficient service to industry, local authorities and the general public. A wide range of site surveys is undertaken and extensive laboratory analytical facilities are available. In addition, Thomson Laboratories offers a specialist asbestos service and training programmes on a variety of environmental topics.

DR F.H.H. VALENTIN MSc PhD

CEng FICHEM E M Cons E
Elm Tree House
Letchworth Lane
Letchworth
Herts SG6 3ND
Tel: Letchworth (0462) 684940

Odour assessment and abatement;
dust and fume control; control of noxious gases and vapours; design of scrubbers, absorbers and peat bed systems, adsorbers and incinerators; efficient handling of powders and granular materials; ventilation; plant and process changes to minimise air pollution; environmental impact assessments; safety audits; insurance matters; expert witness; design and commissioning; problem solving; testing and laboratory facilities; languages.

WARREN SPRING LABORATORY

Gunnels Wood Road
Stevenage
Herts SG1 2BX
Tel: Stevenage (0438) 313388
Telex: 82250

WSL, the Dept. of Trade and Industry's specialist laboratory,

offers a wide range of expertise and facilities. It has research divisions in: Air Pollution; Pollution Abatement; Oil Pollution; Materials Recovery; Materials Handling; Minerals and Metals; Control Engineering; and Biotechnology. WSL undertakes both contract research for individual companies and multi-client co-operative projects, where the cost is borne in part by the Dept. of Trade and Industry.



WS Atkins Environmental Consultancy

WS Atkins can provide environmental expertise in the following subject areas :

- ▶ Environmental impact assessment
- ▶ Air pollution assessment and control
- ▶ Noise assessment and control
- ▶ Contaminated land
- ▶ Ecological studies
- ▶ Social impact studies
- ▶ Public perception studies

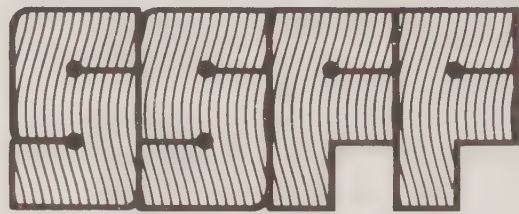
These services can be combined with other divisions within WS Atkins such as civil, water and public health engineering, process engineering, landscape architecture, town planning and safety and reliability to provide a complete in-house consultancy service.

WS Atkins Environmental Consultancy

Woodcote Grove, Ashley Road, Epsom, Surrey KT18 5BW Tel : (037 27) 26140

Aberdeen, Birmingham, Bristol, Cambridge, Cardiff, Colwyn Bay, Leeds, Middlesbrough, Swansea, Warrington, Whitehaven

SOLID SMOKELESS

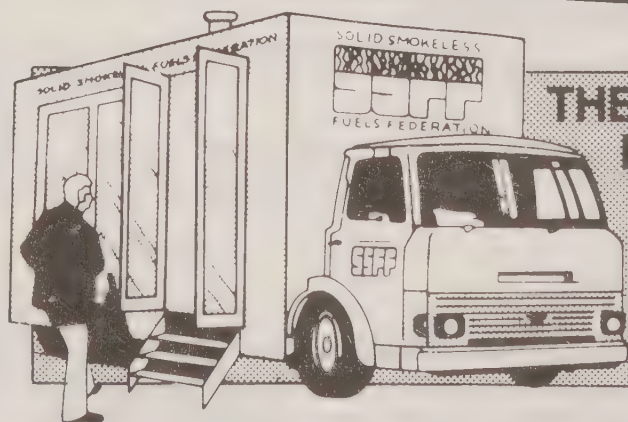
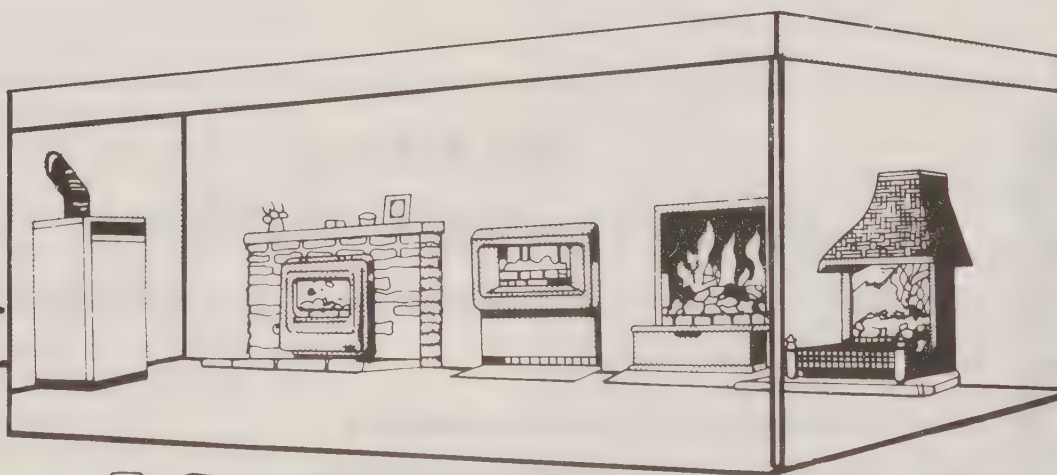


FUELS FEDERATION

The Solid Smokeless Fuels Federation is an independent advisory organisation promoting the interests of the Producers and Distributors of domestic Solid Smokeless Fuels.

The Federation's primary aim is to encourage and develop the use of Solid Smokeless Fuels for domestic heating.

Since the introduction of the 1956 Clean Air Act the Federation's work has been closely linked with Local Authorities encouraging the use of Authorised Solid Smokeless Fuels on approved appliances.



**THE FEDERATIONS STAFF AND
EXHIBITION EQUIPMENT
ARE AVAILABLE TO
LOCAL AUTHORITIES
INTRODUCING SMOKE
CONTROL AREAS**

SOLID SMOKELESS



FUELS FEDERATION

**DEVONSHIRE HOUSE · CHURCH STREET
SUTTON-IN-ASHFIELD
NOTTINGHAM NG17 1AE
TEL: MANSFIELD (0623) 550411**

TRADE DIRECTORY & BUYERS' GUIDE

AAC EUROVENT LIMITED

Leighswood Grove
Aldridge
West Midlands WS9 8SY
Tel: 0922 59757
Fax: 0922 743640
Telex: 339612 AAC

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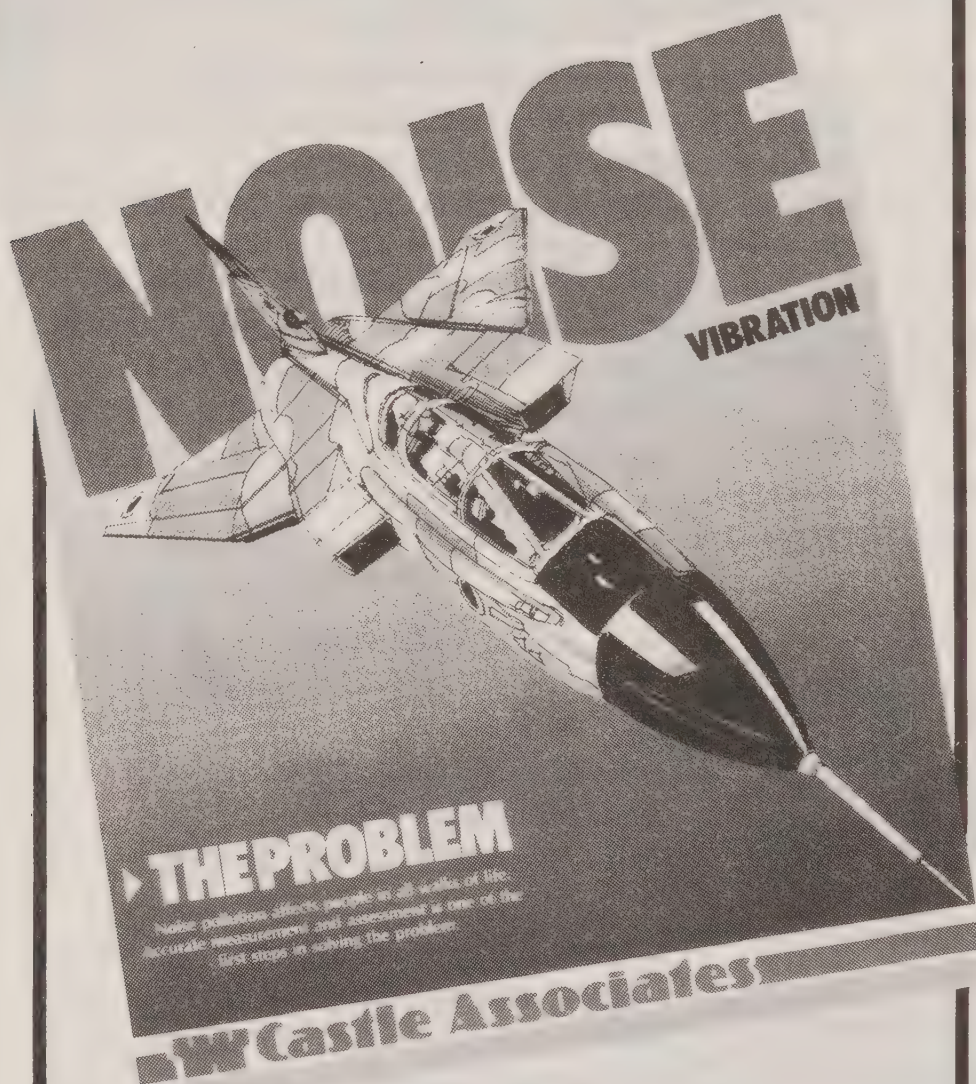
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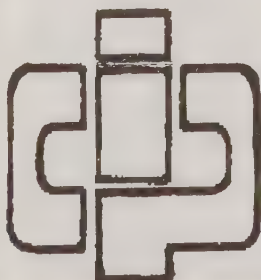
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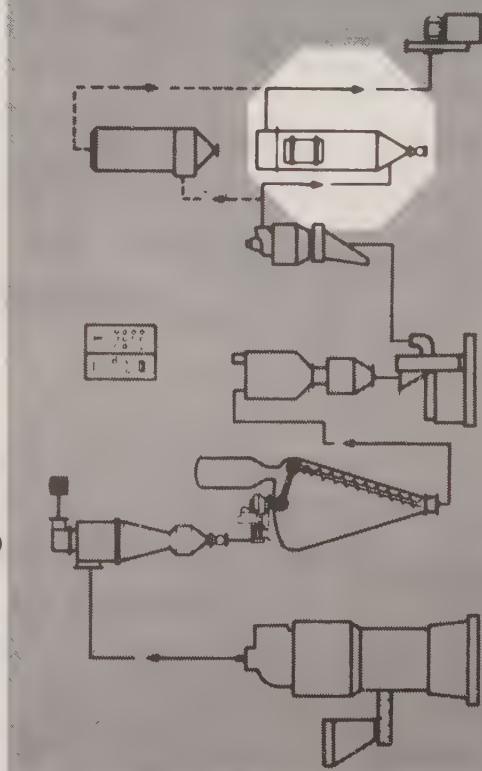
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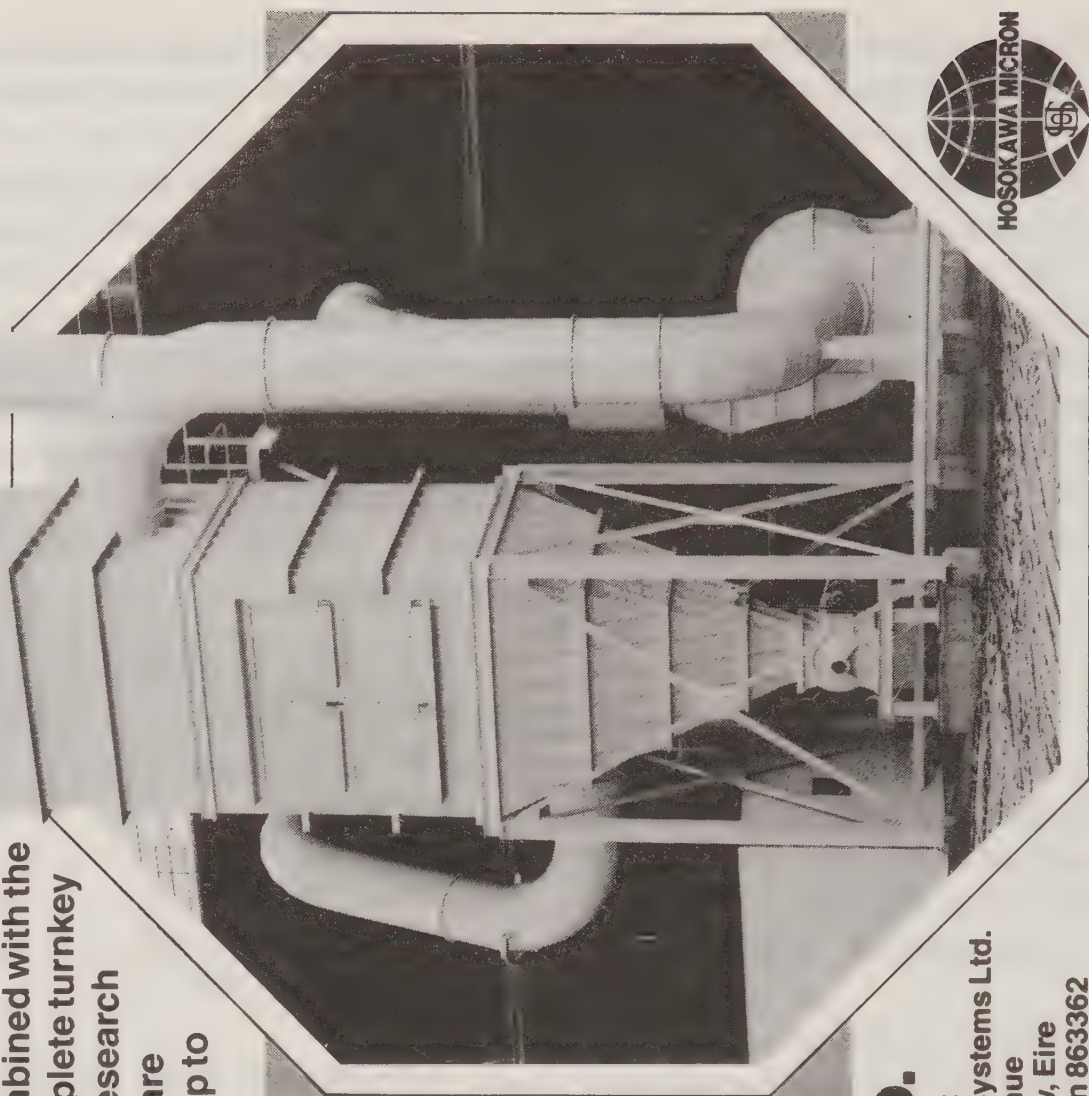


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Telex: 99346 Facsimile: 0702-296445

Agent for Ireland:
Dust Collection Systems Ltd.
3 New Court Avenue
Bray, Co, Wicklow, Eire
Telephone: Dublin 863362



The company is the UK licensee of the German firm Intensiv Filter who have more than 60 years experience in the field of dust and fume control and material recovery. The range of equipment includes a comprehensive range of bag filters, cyclones, wet scrubbers, gas coolers, fans etc, and all ancillary equipment. The company specialises in the design, supply and erection of complete installations for the iron and steel, non-ferrous, foundry, chemical, cement and food industries. The company endeavours to give a high degree of personal service to its customers at competitive prices.

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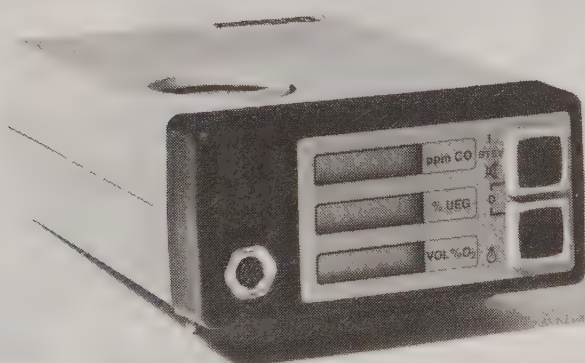
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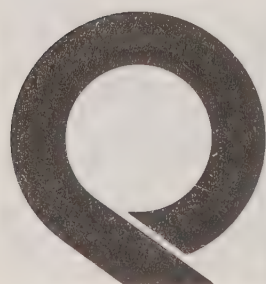
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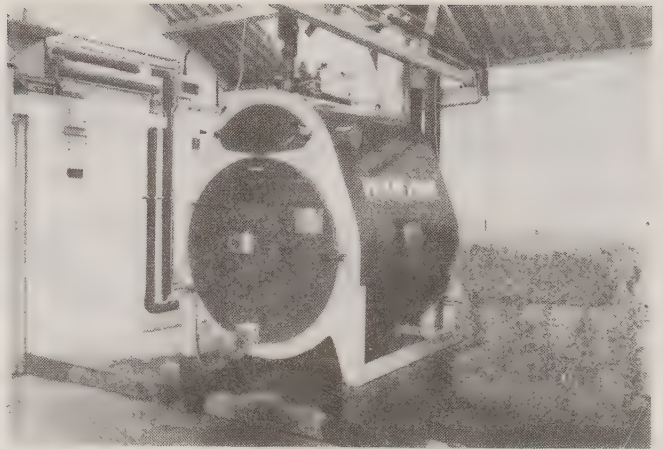
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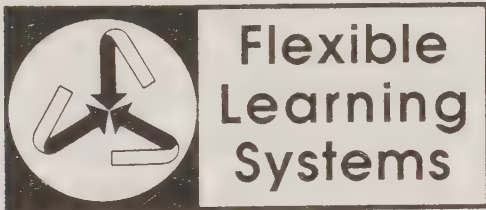
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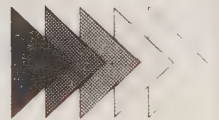
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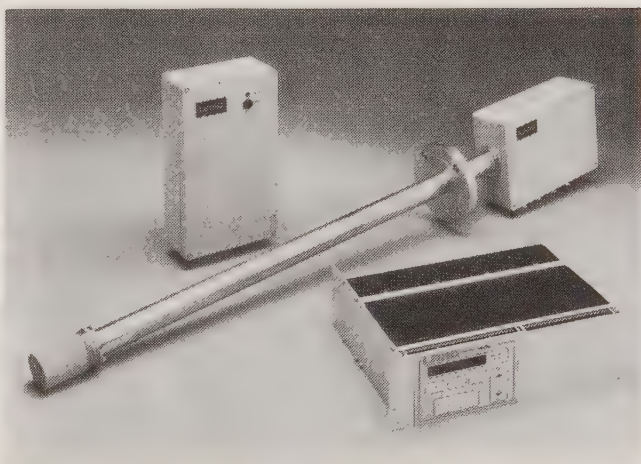
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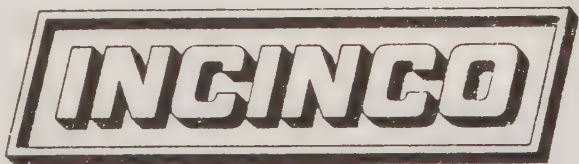
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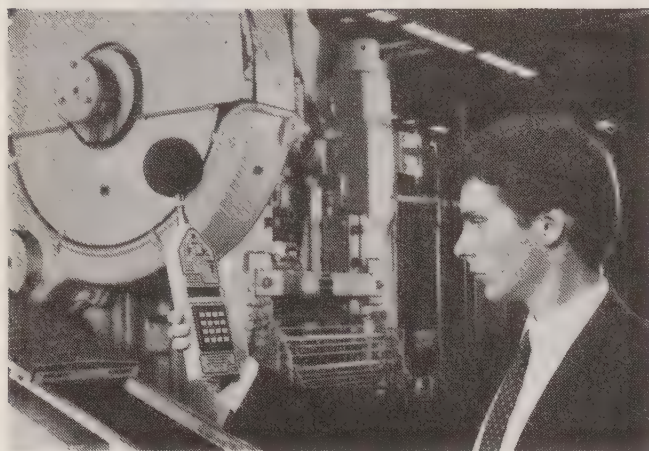
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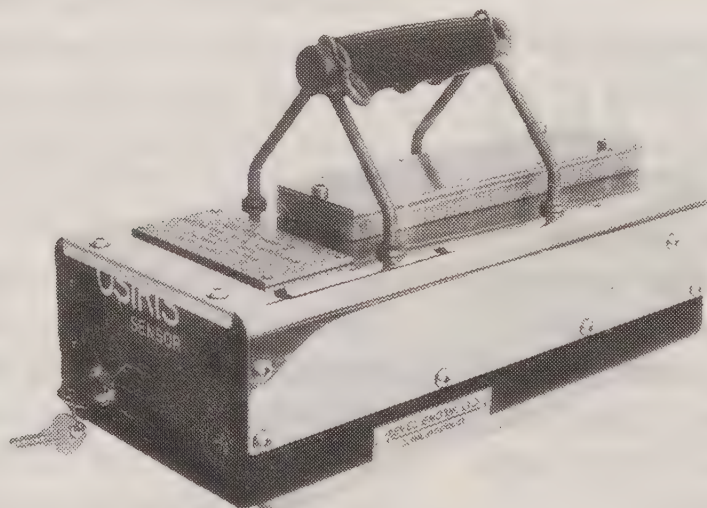
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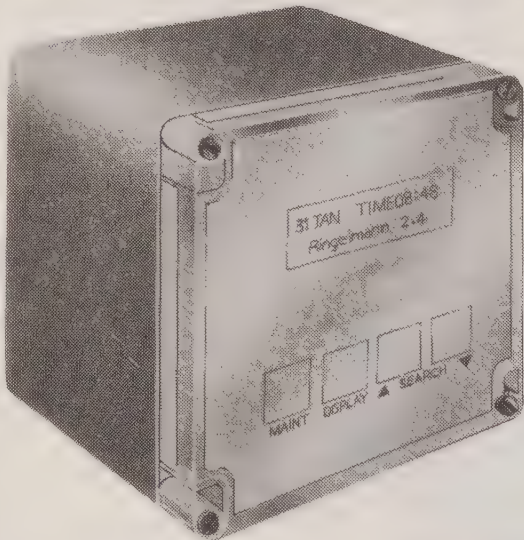
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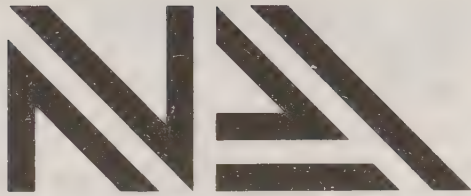


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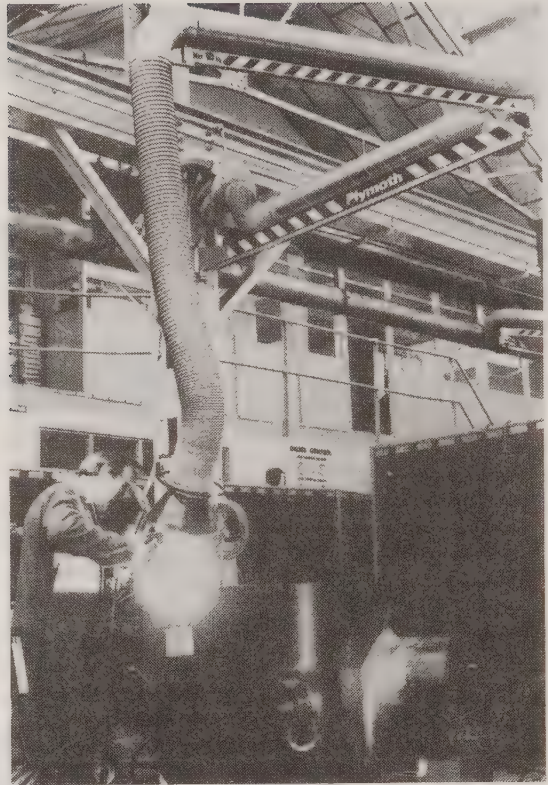
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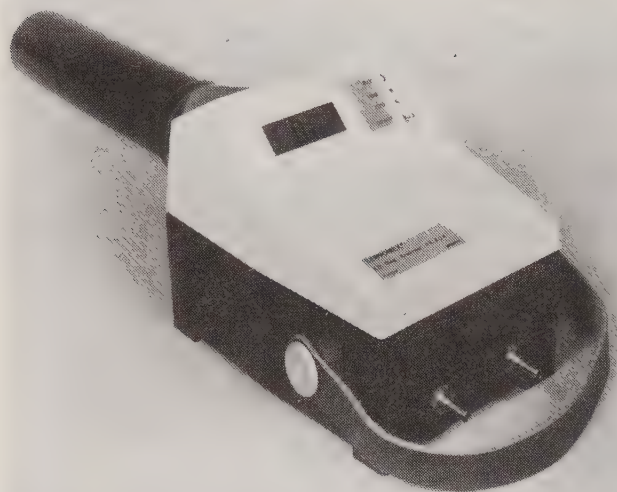
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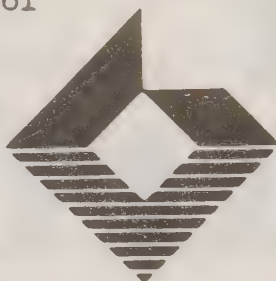


Peabody Holmes

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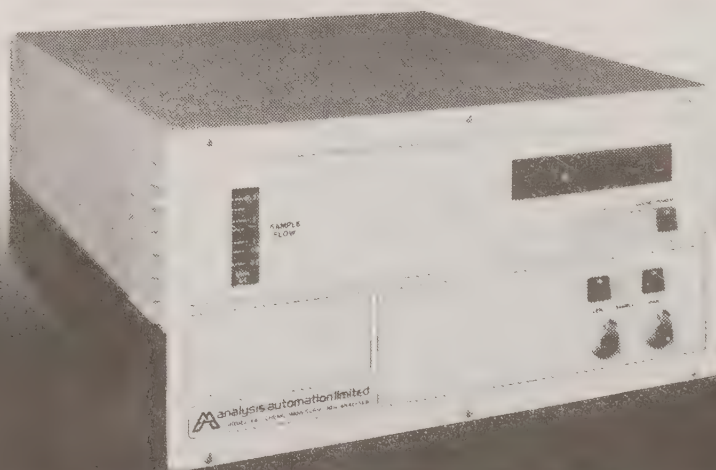
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 Analysis Automation Ltd
 Bruel & Kjaer (UK) Ltd
 Casella London Ltd
 Detection Instruments Group Ltd
 Draeger Limited
 Enviro Technology Services Ltd
 Quantitech Ltd
 Servomex Ltd
 VG Gas Analysis Systems Ltd

GAS SCRUBBERS AND WASHERS
 AAF Ltd
 Carter Industrial Products Ltd
 ERG (Air Pollution Control) Ltd

GAS SEPARATION
 CJB Developments Ltd

GAUGES
 H A Wainwright & Co Ltd

GRIT ARRESTORS
 Ambuco Process Equipment Ltd
 Nairb Air Ltd

HEAT EXCHANGERS
 Carter Industrial Products Ltd
 Metal Box Engineering

HEAT PUMPS

AAF Ltd

BRD (Air Conditioning) Ltd

HEAT TRANSFER SYSTEMS

Carter Industrial Products Ltd

HEATERS : AIR

Bahco Ventilation Ltd

H A Wainwright & Co Ltd

HEATERS : INFRA-RED

H A Wainwright & Co Ltd

HEATERS : WATER

H A Wainwright & Co Ltd

HEATING EQUIPMENT :

DOMESTIC

Farm 2000 Ltd

HEATING TAPES : ELECTRIC

H A Wainwright & Co Ltd

HEAVY METAL ANALYSERS

Enviro Technology Services Ltd

HUMIDIFIERS

BRD (Air Conditioning) Ltd

Lucas Dawe Ultrasonics Ltd

HUMIDITY CONTROLLERS

BRD (Air Conditioning) Ltd

Honeywell Control Systems Ltd

H A Wainwright & Co Ltd

HUMIDITY RECORDERS

Brue! & Kjaer (UK) Ltd

H A Wainwright & Co Ltd

HYDROGEN SULPHIDE ANALYSERS

Analysis Automation Ltd

Detection Instruments Group Ltd

Enviro Technology Services Ltd

Quantitech Ltd

Servomex Ltd

VG Gas Analysis Systems Ltd

INCINERATORS

Evans Universal Ltd

Hoval Farrar Ltd

Incinerator Company Ltd, The

Metal Box Engineering

INDICATORS : FLOW

H A Wainwright & Co Ltd

INDICATORS : HUMIDITY

H A Wainwright & Co Ltd

INDICATORS : pH

H A Wainwright & Co Ltd

INDICATORS : SMOKE DENSITY

Combustion Developments Ltd

Erwin Sick Optic Electronic Ltd

H A Wainwright & Co Ltd

INDICATORS : SO_x

Combustion Developments Ltd

Erwin Sick Optic Electronic Ltd

Servomex Ltd

INDICATORS : SOUND LEVEL

Brue! & Kjaer (UK) Ltd

Lucas CEL Instruments Ltd

INSTRUMENTS : GAUGES, METERS ETC

H A Wainwright & Co Ltd

INSULATION : ACOUSTICS

Noise Reduction Ltd

LEAK DETECTORS

Quantitech Ltd
 Servomex Ltd
 VG Gas Analysis Systems Ltd

LECTURES, FILMSTRIPS, TAPES, SLIDES & NOTES

Flexible Learning Systems
 (A Division of Leicester
 Polytechnic (Technology) Ltd

MEASUREMENT & DETECTION EQUIPMENT

Enviro Technology Services Ltd
 Quantitech Ltd
 Servomex Ltd
 H A Wainwright & Co Ltd

MECHANICAL COLLECTORS

Ambuco Process Equipment Ltd
 Carter Industrial Products Ltd
 ERG (Air Pollution Control) Ltd
 Nairb Air Ltd

MERCURY VAPOUR MONITORS

Enviro Technology Services Ltd
 Quantitech Ltd
 SKC Ltd

METAL FUME DETECTORS

Draeger Limited

METEOROLOGICAL INSTRUMENTS

Bristol Industrial & Research
 Associates Ltd
 Casella London Ltd
 Detection Instruments Group Ltd
 Erwin Sick Optic Electronic Ltd

METERS : SOUND LEVEL

Brueel & Kjaer (UK) Ltd
 CIRRUS Research Ltd

Lucas CEL Instruments Ltd
 Lucas Dawe Ultrasonics Ltd
 Pulsar Instruments

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MONITORING EQUIPMENT

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 Glass Developments Ltd
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 SKC Ltd

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 Noise Reduction Ltd
 Technica Ltd
 Thomson Laboratories

NOISE CONTROL MATERIALS

Ferguson & Timpson Ltd
 Noise Reduction Ltd

NOISE SUPPRESSION

Noise Reduction Ltd

NOISE/VIBRATION ATTENUATION

Nairb Air Ltd
 Noise Reduction Ltd

NOISE/VIBRATION : CONTROL ENGINEERS

Noise Reduction Ltd
 Technica Ltd

NOISE/VIBRATION : MEASURING EQUIPMENT

Brueel & Kjaer (UK) Ltd

CIRRUS Research Ltd
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NOISE/VIBRATION :

PROTECTIVE DEVICES

Lucas CEL Instruments Ltd

NOZZLES : SPRAY

Lucas Dawe Ultrasonics Ltd

OCCUPATIONAL HYGIENE SERVICES

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ODOUR ABSORPTION

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ODOUR ADSORPTION

ERG (Air Pollution Control) Ltd
Nairb Air Ltd

ODOUR CONTROL

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ERG (Air Pollution Control) Ltd
Metal Box Engineering
Nairb Air Ltd
Technica Ltd
Thomson Laboratories

**ODOUR CONTROL : CATALYTIC
COMBUSTION**

Metal Box Engineering

OIL MIST ELIMINATORS

AAF Ltd
Carter Industrial Products Ltd
Domnick Hunter Filters Ltd
Nairb Air Ltd

OVENS : INDUSTRIAL

MagnaVac Air Systems Ltd
Metal Box Engineering

OXIDES OF NITROGEN ANALYSERS

Analysis Automation Ltd
Combustion Developments Ltd
Draeger Limited
Enviro Technology Services Ltd
Erwin Sick Optic Electronic Ltd
Land Combustion Ltd
Quantitech Ltd
Servomex Ltd
VG Gas Analysis Systems Ltd

OXYGEN ANALYSERS

Analysis Automation Ltd
Draeger Limited
Land Combustion Ltd
Quantitech Ltd
Servomex Ltd
VG Gas Analysis Systems Ltd
H A Wainwright & Co Ltd

OZONE ANALYSERS

Analysis Automation Ltd
Draeger Limited
Enviro Technology Services Ltd
Quantitech Ltd
VG Gas Analysis Systems Ltd

**POLLUTION CONTROL ADVISORY
SERVICES**

Clayton Bostock Hill & Rigby
ECOTEC Research & Consulting Ltd
Technica Ltd
Thomson Laboratories

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Servomex Ltd
VG Gas Analysis Systems Ltd
H A Wainwright & Co Ltd

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 Graham & Trotman Ltd

PUMPS

Charles Austen Pumps Ltd

QUIET HAVENS

Noise Reduction Ltd

RECORDERS

Bruel & Kjaer (UK) Ltd
 H A Wainwright & Co Ltd

RECOVERY PLANT

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 CJB Developments Ltd
 Nairb Air Ltd

**RESEARCH & DEVELOPMENT
FACILITIES**

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RESPIRATORS

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SCRUBBERS

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 Ambuco Process Equipment Ltd
 Carter Industrial Products Ltd
 ERG (Air Pollution Control) Ltd
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SEPARATORS : GASES

Carter Industrial Products Ltd

SEPARATORS : LIQUID

Carter Industrial Products Ltd

SEWAGE TREATMENT PLANT

Nairb Air Ltd

SILENCERS

AAF Ltd
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 ECOTEC Research & Consulting Ltd
 Technica Ltd
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 Erwin Sick Optic Electronic Ltd
 Land Combustion Ltd
 H A Wainwright & Co Ltd

SMOKE INDICATORS

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 Erwin Sick Optic Electronic Ltd

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S02 SAMPLERS

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 Draeger Limited
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SOLVENT RECOVERY PLANT

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 Nairb Air Ltd
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SPECTROMETERS

Quantitech Ltd

**SPRAYING APPARATUS FOR
DEODORANTS ETC**

ERG (Air Pollution Control Ltd)

**STACK EMISSIONS :
MONITORING EQUIPMENT**

Combustion Developments Ltd

Draeger Limited

Enviro Technology Services Ltd

Erwin Sick Optic Electronic Ltd

Land Combustion Ltd

Quantitech Ltd

Servomex Ltd

STOKERS : INDUSTRIAL

Farm 2000 Ltd

STOVES : WOOD BURNING

Farm 2000 Ltd

STRAW-FIRED BOILERS

Farm 2000 Ltd

SULPHUR DIOXIDE ANALYSERS

Analysis Automation Ltd

Combustion Developments Ltd

Enviro Technology Services Ltd

Erwin Sick Optic Electronic Ltd

Glass Developments Ltd

Land Combustion Ltd

Quantitech Ltd

Servomex Ltd

VG Gas Analysis Systems Ltd

**SULPHUR DIOXIDE
REMOVAL SYSTEMS**

Nairb Air Ltd

Sutcliffe Speakman Carbons Ltd

SULPHUR RECOVERY PLANT

Nairb Air Ltd

TEMPERATURE RECORDERS

Casella London Ltd

H A Wainwright & Co Ltd

THERMOMETERS, INDICATORS ETC

H A Wainwright & Co Ltd

THERMOSTATIC RADIATOR VALVES

Honeywell Control Systems Ltd

THERMOSTATS

H A Wainwright & Co Ltd

UNIT DUST COLLECTORS

AAF Ltd

Air Plants Ltd

Carter Industrial Products Ltd

Donaldson Torit

Nairb Air Ltd

Nederman Ltd

VACUUM PUMPS & EQUIPMENT

Charles Austen Pumps Ltd

VENTURI SCRUBBERS

AAF Ltd

Ambuco Process Equipment Ltd

Carter Industrial Products Ltd

ERG (Air Pollution Control) Ltd

Nairb Air Ltd

VISIBILITY MONITORS

Erwin Sick Optic Electronic Ltd

WASHERS: AIR OR GAS

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Nairb Air Ltd

WASTE DISPOSAL EQUIPMENT

Evans Universal Ltd

Metal Box Engineering

WASTE DISPOSAL SPECIALISTS

Clayton Bostock Hill & Rigby
Evans Universal Ltd
Technica Ltd

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Air Plants Ltd
Farm 2000 Ltd

WASTE HEAT RECOVERY

Metal Box Engineering

**WASTE MATERIAL DISPOSAL
FURNACES**

Evans Universal Ltd

WASTE PURIFICATION

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Sutcliffe Speakman Carbons Ltd

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AUTOMATIC – SELF CLEANING
Carter Industrial Products Ltd

WATER FILTRATION : BAG

Carter Industrial Products Ltd

WATER FILTRATION : HYDROCYCLONES

Carter Industrial Products Ltd

**WATER FILTRATION : MULTI –
MEDIA – SELF CLEANING**

Carter Industrial Products Ltd

WATER TREATMENT PLANT

Carter Industrial Products Ltd
Clayton Bostock Hill & Rigby
Sutcliffe Speakman Carbons Ltd

WATER & WASTEWATER MANAGEMENT

Clayton Bostock Hill & Rigby

WET ARRESTORS

Carter Industrial Products Ltd
Nairb Air Ltd



MEMBERS HANDBOOK 1990



national society for clean air
and environmental protection



MEMBERS HANDBOOK 1990

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NATIONAL SOCIETY FOR CLEAN AIR
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CONTENTS

SECTION 1

The National Society for Clean Air and Environmental Protection	2
Chairman's Report 1988-89	3
Accounts for the Period 1 April 1988 to 31 March 1989	13

SECTION 2

Memorandum of Association	21
Articles of Association	24
Bye-Laws	33

SECTION 3

Honorary Officers	39
Past Presidents 1929-1989	40
Past Chairmen of Council 1958-1989	41
The Council of the Society	42
Standing Committees	44
NSCA Staff	46
Who's Who	47

SECTION 4

DIVISIONAL MEMBERSHIP	
Division 1 - Scotland	73
Division 2 - Northern Ireland	73
Division 3 - Northern	74
Division 4 - North West	74
Division 5 - Yorkshire and Humberside	75
Division 6 - West Midlands	76
Divisions 7 & 8 - East Midlands and Eastern	77
Divisions 9 & 10 - London & South East and Central Southern	78
Division 11 - South West	81
Division 12 - South and Mid Wales	82

SECTION 5

Smoke Control Areas	85
---------------------	----

SECTION 6

Directory of Organisations (UK & Overseas)	97
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SECTION 7

Guide to Pollution Control Equipment Manufacturers, Suppliers and Consultants	111
Classified Entries	135

ADVERTISERS

Bassaire Ltd	134
Casella London Ltd	155
Central Electricity Generating Board	18
Coalite Group Plc	94
Enviro Technology Ltd	ii
Ventureprise Ltd	153

SECTION 1

**National Society for Clean Air
Chairman's Report 1988-89
Accounts 1 April 1988
- 31 March 1989**

NATIONAL SOCIETY FOR CLEAN AIR AND ENVIRONMENTAL PROTECTION

The Society's origins date back to the Coal Smoke Abatement Society (founded 1899); in the past decade it has considerably widened its interests and activities, and its work now covers the whole field of air pollution and the problem of noise and its control. The NSCA has national and international standing; its influence and operation embrace industry, local and central government and the general public. It is concerned both with long-term policy questions and urgent current problems. The NSCA is a Founder Member of the worldwide International Union of Air Pollution Prevention Associations (IUAPPA) and the official UK representative on the International Association Against Noise

THE NSCA's AIM is to secure environmental improvement through the reduction of air pollution, noise and other contaminants, while having due regard for other aspects of the environment. The NSCA advances the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention. The Society is funded by member's subscriptions, donations and monies raised by activities.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities, universities and other educational establishments, corporate bodies representing learned and professional institutions, and the fuel industries, and other industrial companies.

PRINCIPAL ACTIVITIES include holding Conferences and Technical Training Workshops. Convening national and regional meetings and exhibitions. Making representations to government, other authorities and agencies and to industry, on all matters relating to air pollution, noise and environmental issues including: legislation drafting, statutory controls, standards, technical concerns, local and national issues.

PROVISION OF INFORMATION FOR ENVIRONMENTAL EDUCATION The NSCA promotes public education at all levels. The approach is to stimulate interest in the environment by providing information that is accessible, balanced and up to date. The Society has its own press and publishes books, reports, papers, conference and technical proceedings, a range of leaflets on different topics, *Pollution Handbook* and the journal *Clean Air* (quarterly). The Society operates an Information Service and Library which handles thousands of requests for information, references and publications every year.

ORGANISATION The elected Council is the Society's governing body. An administration staff headed by the Secretary-General is employed at the Brighton Headquarters. The Society has 12 Divisions throughout the UK which arrange activities and meetings at regional level and consider issues from that perspective. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

POLICY DISCUSSION AND FORMULATION Policy discussion and formulation is initiated by NSCA Divisions and at the annual NSCA Conference as well as within the national Council. Policy details are evolved by the appropriate standing committee(s): Technical, Noise, and Parliamentary and Local Government; a Steering Committee reacts swiftly when urgent response is required. Policy is ratified by the Council.

CHAIRMAN'S REPORT

I — GENERAL

The Role of the Society

I believe that this report of our 90th Anniversary year provides both outstanding testimony to the vigour of the Society and shows that as part of the fabric of the nation it is now more necessary than ever. The science and technology of pollution control are increasingly complex — and as it makes ever greater demands on national resources, so do the underlying politics intensify. We all wear shades of green today! And as politicians seek votes in promises to protect the environment; as some other groups grow more strident in their campaigning; and as one sees the long-term solutions to so many environmental problems undermined by too hastily conceived palliatives — so then one appreciates why the informed, balanced and steadfast approach of the Society has withstood the test of time and is central to its reputation.

In 1976 the Royal Commission on Environmental Pollution produced the concept of “best practicable environmental option” — which has become an article of faith and seen the establishment of Her Majesty's Inspectorate of Pollution. In turn, this triggered the very full debate within the Society about its ever evolving role, and whether this should be reflected in a change of name. I am delighted to report that the overwhelm-

ing consensus is that the imperative in our Memorandum of Association that the scope of our activities must take due “regard for the implications for other aspects of the environment” should be made plain to all. Thus, this Annual General Meeting is being invited to vote in favour of the Society becoming “The National Society for Clean Air and Environmental Protection”. The intention is that we should continue to use the Society's existing logo and refer to ourselves as the NSCA, and use the full title whenever appropriate. As the range of expertise within our Committees continues to widen, so will our activities: our progression into noise pollution sets the standard. However, we already possess considerable expertise in waste management, whilst water will take longer. With these thoughts in mind, I look forward to a unanimous vote.

National Issues

In a busy year there has been commendable progress nationally and internationally. In particular the Government has taken a leading role in the global control of chlorofluorocarbons and also in accepting the strictures of the European Parliament that US standards of vehicle emissions controls should be introduced across the whole range of vehicle production within the Community. What is less certain is how effective the Government proposals to meet the air quality standards set by the EC

4 - Section 1

Directive on Large Combustion Plant will be. Nor do the environmental consequences of electricity and water privatisation appear to have been thought through. Part, if not most, of the difficulty is that Government seeks to cure the problems of pollution without facing up to the fundamental policies which have caused them in the first place.

Thus we wrote to the new Secretary of State for the Environment in August pointing out that the key portfolios for the Environment and Energy lack political direction, whilst other responsibilities for the environment were fragmented in other Departments of State. In the light of this we argued: first, for a comprehensive overhaul of the machinery of government for the protection of the environment to ensure that the coordinating authority — presumably the Department of the Environment — possesses the requisite authority and resources, and is appropriately structured; and, second, for the creation of a statutory, independent, non-political body to advise Government on all aspects of environment and pollution policy including, importantly, research and development. With regard to the latter, we emphasised the need to stimulate the development of environmental control technology — which has signally failed to receive the same backing from Government here as in, for example, Germany, Japan and the USA. All of these countries as a matter of principle have supported basic research long before the development of the technology which has emerged, and have strict environmental goals to help force the pace of change.

It is also a matter of continuing profound concern that the problem of inadequate resourcing continues to bedevil the re-

structuring and proper development of Her Majesty's Inspectorate of Pollution. At its meeting last December, Council was unanimously of the opinion that the country was in grave danger of losing the expertise built up over the past 125 years in the effective enforcement of best practicable means controls in the face of a spurious system of self-regulation and stack emissions measurements. As the Chief Alkali and Clean Air Inspector said in his Annual Report, "the Inspectorate is not solely concerned with what comes out of a chimney but also with the regulation of the process itself". Administrative competence can never substitute for technical expertise — thus, the loss of individual professional posts will inevitably downgrade the quality of air pollution control throughout England and Wales.

90th Anniversary

Fully reported in *Clean Air*, we marked the Society's 90th Birthday by a media briefing announcing the proposed change in name, by the publication of the commemorative booklet "*Clean Air — 90 Years of Progress*", and a lunch-time reception in the Cholmondeley Room of the House of Lords. We are indebted to our President, Lord Nathan, for hosting the Reception which was much enjoyed by all the guests and rightly deemed a great success. Junior Environment Minister Mrs. Virginia Bottomley congratulated the Society on its achievements and ever evolving role. In thanking her, Lord Nathan also referred to the tasks ahead. Both speakers were warmly applauded.

Liaison with Other Bodies

Turning to our relationships with other bodies, the Society continues to enjoy

wide representation in the Investigation of Air Pollution Standing Conference (IAPSC), of which I have recently had the honour of being elected Chairman. We are represented on the Parliamentary and Scientific Committee and on the Environment Council, and on the Environmental/Public Issues panels of the National Radiological Protection Board and the Radioactive Waste Management Advisory Committee. We are also members of the Energy Industries Club, the Industrial Fuel Economy Group, and the UK Environmental Law Association. We continue to provide secretarial services for the Environmental Protection Equipment Manufacturers Association (EPEMA) and the International Committee on Industrial Chimneys (CICIND) — although we shall be relinquishing the contract for the latter at the end of the year.

IUAPPA

As you will know, the Society is a founder member of the International Union of Air Pollution Prevention Associations (IUAPPA), for which we also provide the Secretariat and publish its newsletter, handbook, and standard text "Clean Air Around The World" — which covers the law and practice of air pollution control in 14 countries on 5 continents. A second, expanded edition is scheduled for 1991. Through its membership of the International Union of Technical Associations (UITA), the Union enjoys consultancy status with many United Nations organisations including the United Nations Environment Programme (UNEP), the United Nations Industrial Development Organisation (UNIDO), the World Meteorological Organisation (WMO) and UNESCO. It also keeps in touch

with the Commission of the European Communities (CEC) and the Organisation for Economic Co-operation and Development (OECD). The Society is represented on the IUAPPA Executive and the International Board by Mr. K.S. Dunn, a past Chairman of the Society. Our Secretary General, John Langston, was elected Director General of the Union in 1986 and continues to hold this honorary appointment. Our own Editor, Loveday Murley, is Editor, IUAPPA.

The 8th World Congress was held in The Hague in September under the patronage of Her Majesty the Queen of The Netherlands. Highlights of the Congress were a presentation by the Dutch Minister of the Environment, a representative of the US Environmental Protection Agency and the Environment Commissioner of the CEC; the adoption of a Declaration on global warming for submission to the United Nations; the presentation of some 425 papers to a delegate attendance exceeding 800. The 9th and 10th World Congresses will be held in Montreal in 1992 and Helsinki in 1995 respectively.

AICB

As the UK member of the Association Internationale Contre le Bruit (AICB), the Society has been represented on its Governing Body for a number of years. The 16th (bi-annual) Congress of the Association will be held in the Conference Centre, Brighton, with the NSCA as the host organisation. The response to the Call For Papers has been very satisfactory. I look forward to a most successful event which should add importantly to the Society's reputation in the noise field.

The Standing Committees

Just as the continuing exchange between the Divisions and Council is a basic strength of the Society, so the reputation of our Standing Committees is another. We are extremely fortunate in having the voluntary services of a comprehensive cross-section of the nation's experts embracing all disciplines. Committee work of this sort takes time and effort, and I would like to take this opportunity of thanking all members of Council and all members of Committees for attending the meetings and, not infrequently, taking the trouble to put their thoughts in writing. And I know that all members of Council wish me to make a particular point of thanking the co-opted members of the Committees whose specialist advice is so critical to policy making. A special vote of thanks is due to the Climate Change Working Group which met on four occasions between December and February to prepare the Society's submission to the House of Lords Select Committee on Science and Technology. I would also like to thank those who have served on the Acid Rain, Civil Nuclear Power, and Neighbourhood Noise Working Groups.

While Part II of this Report covers the activities of the Technical, Parliamentary and Local Government and Noise Committees, as you can imagine the Conference and Promotions Committee and the Finance and Administration Committee have been equally busy. In organising the Society's Annual Conference, Spring Workshop and other meetings, and in formulating and implementing publications policy, the Conference and Promotions Committee is now directly responsible for generating almost 47% of the Society's gross revenue. Equally, the Finance and Adminis-

tration Committee has been exercised by the continuing problems of budget and finance and the updating of working practices. We are now comprehensively automated with three large memory computers, various printers and a large capacity photocopier, in addition to our offset litho printing facility.

DOE Grant

The momentum in the Society's activities is reflected in the scale of the annual budget which now approaches £250,000. Under the careful stewardship of our Honorary Treasurer, Brian Edwick, and tight administrative control at Headquarters, projected budget deficiencies have been avoided and some modest surpluses achieved. This is of course a very satisfactory situation, but as you will see from the balance sheet, without the Special Grant from the Department of the Environment we would be quite unable to maintain our public information and library service at the level of demand now being placed upon it — which has virtually doubled in the past year. Thus we are indebted to the Department of the Environment for funding about half the cost of this service which, under the terms of the Special Grant, should assure its continuation over the coming three years.

Personnel

The Society is extremely fortunate to have the services of a highly professional staff, all of whom are committed to its objectives and also personally identify themselves with the Society and its membership. Thus I am delighted to report that there have been no changes in staff during the preceding 12 months and Mrs. Wendy Messer, Secretary to the Secretary General and Administra-

tion Manager, has been appointed full-time taking over from Mrs. Vanessa Draper who resigned following the birth of her daughter last year.

The President

During his second year in office our President, Lord Nathan, has been extremely active both in public and behind the scenes in promoting the affairs of the Society. In chairing sessions of the Annual Conference and the Spring Workshop he has influenced the formulation of Society policy whilst his willingness to press the Society's case at every level has been outstanding. We are most grateful, and I am delighted to think that as Immediate Past President, Council will continue to have the benefit of his advice.

Sir John Mason, our incoming President, is a scientist of national and international renown. President of the University of Manchester Institute of Science and Technology, he was formerly Director General of the Meteorological Office. Among his many appointments of top level importance the following have been listed: Director of the Royal Society Programme on the Acidification of Surface Water; Chairman of the WMO/ICSU Scientific Committee on World Climate Research; UK permanent representative to the WMO and President of the Royal Meteorological Society. We are indeed fortunate that we can attract people of such influence and authority to accept our highest office.

The Society is equally fortunate in the quality of its Vice-Presidents and it is a matter of great satisfaction that the Earl of Cranbrook and Frank Haynes, MP have agreed to accept a further term of office. Equally satisfying is the accept-

ance of the appointment of Vice-President by Mr. John Edmonds, General Secretary of the General Municipal Boilermakers and Allied Trades Union. A longstanding member of the Royal Commission on Environmental Pollution he has a full understanding of our objectives and, importantly, will extend our influence in this new direction.

II — ACTIVITIES

The sudden "discovery" of the Environment as a major area of social concern has meant an ever-expanding workload for the Society. Demand for information from all sectors has increased markedly; this has been mirrored by the number of official consultation exercises to which NSCA has contributed, and by a developing programme of campaigning in pursuit of Society policy objectives.

Pollution Control

NSCA gave its views on the DOE Consultation Paper on Air Pollution Control, the second round of a consultation procedure designed to tidy up the air pollution control system. We expect to see the outcome embodied in new legislation this autumn, probably as part of the so-called "Green Bill". Two further consultation papers, "The Role and Function of Waste Disposal Authorities" and "Special Industrial Use Classes" also received detailed responses.

Integrated Pollution Control recognises the need to balance the pollution regulation regime for major industries in order to ensure that the Best Practicable Environmental Option is obtained. Three further consultation papers from the DOE discussed first the way in which IPC could be implemented by HMIP,

second the way in which the system could be paid for, and, third, Public Access to Information. NSCA commented on many specific aspects of the papers whilst emphasising its overall opposition to the concept of cost recovery charging for the policing of pollution control. A Scottish Development Department consultation paper which seeks to extend the IPC concept to Scotland is currently being reviewed by members of the NSCA Scottish Division.

As I said in Part I of this report, the consultations provided further evidence of the need to increase the staffing and resources available to HMIP. The Society has remained vociferous in its support for the Inspectorate, particularly the Air Division, which has suffered from reorganisation and effective downgrading with a concomitant increase in workload. This is an issue which we will continue to pursue vigorously.

In the meantime, the forthcoming privatisation of the electricity supply industry looks certain to have major repercussions for clean air and environmental protection. The further installation of flue gas desulphurisation for major coal burning plant appears to have been put "on hold" with the cancellation of the FGD plant for Fiddler's Ferry power station. The use of imported coal and natural gas could now figure much more significantly in future generating plant. We are now preparing the Society's response to the discussion document on UK proposals to implement the EEC Large Combustion Plant Directive, which proposes that the cost of atmospheric cleanup should be spread more widely through industry, rather than being concentrated on the major CEGB

coal burning plant.

Climate Change

The meteoric rise of the Greenhouse Effect from scientific obscurity to its current status as a political hot potato showed the need for a balanced appraisal of scientific evidence before determining environmental policy. The Technical Committee formed a Climate Change Working Group comprising a wide range of expertise which quickly produced the text for a general leaflet on the subject, gave evidence to a House of Lords Select Committee, made recommendations for Society policy, and helped to develop an international declaration on the issue which was presented to the IUAPPA World Clean Air Congress in September 1989. The subject will also receive extensive treatment at the Society's 1989 Annual Conference. A major element in any policy response to global warming is the need for energy conservation and efficiency measures; the Society gave written evidence to the House of Lords European Communities Committee on Efficiency of Electricity Use.

Municipal Waste Incinerators

Incineration can often be the best practicable environmental option for the disposal of waste, particularly if the waste is hazardous. Yet incineration is suffering a bad press and plans for new incinerators have been subject to strong local opposition. Against this background, NSCA also gave evidence to a House of Lords Sub-Committee on the EEC Directive on Municipal Waste Incineration, recommending Government backing for a demonstration municipal waste incinerator which would incorporate state of the art emission controls with

heat recovery, utilising the waste as a source of energy.

On a related issue, the Society scored a major victory in its campaign for the removal of Crown Immunity from hospital incinerators. Under the new air pollution legislation noted above, such incinerators will no longer enjoy favoured protection. However, other Crown properties will remain exempt from the normal pollution control machinery, and we shall continue our efforts to have Crown Immunity removed completely.

Noise

The NSCA Noise Committee continued its work on a number of important fronts. Progress on the control of noisy motorcycles was maintained, with the NSCA-recommended noise test undergoing trials with the Derby Police and Department of Transport, and NSCA participation in the development of a Code of Practice for off-road motorcycle events. The Committee also provided input into Codes on Powerboat and Water Ski Racing and Clay Pigeon Shooting, and the revision of the British Standard for noise control BS4142. A working group of the Committee was formed to consider the issue of Neighbour Noise; a major survey of local authorities was undertaken and their recommendations are to be published shortly.

The Society is honoured to be hosting the 16th World Congress for AICB (International Association Against Noise) in Brighton in June 1990. Preparations are well in hand; the theme is "The Future for Noise Control — Towards an Interdisciplinary Approach", and a broad spectrum of papers has been selected to reflect this.

Vehicle Emissions

The decision of the European Environment Ministers to accept a strict package of gaseous emission limits for small cars, likely to be followed by equally stringent legislation for medium and large cars, was a major victory for clean air campaigners. Just how much the improvements in emission control will be offset by increasing traffic volumes remains to be seen. Much of the debate about vehicle emissions will now centre around the broader question of transport policy; this will be the subject of the 1990 NSCA Spring Workshop.

Research by NSCA on consumer resistance to buying unleaded petrol identified the need for an increased price differential between leaded and unleaded, and for a public information campaign to clear up the widespread misunderstanding which had clouded the issue. The Government promptly followed both recommendations and sales duly boomed. Over a quarter of sales are now unleaded, despite the fact that some car manufacturers are leaving it to the very last minute before changing their models over to unleaded capability. The picture is now becoming a little more complicated again, with a new high-octane unleaded petrol which claims to give motorists back the performance which it was always claimed they would not lose by converting to unleaded in the first place.

Diesels remain a major loophole in vehicle emission controls. The recent NSCA report "Dirty Diesels" showed just how serious the problem of diesel smoke emissions is. Since the report was published there has been more evidence from the USA about the potentially carcinogenic nature of diesel fumes. Following the recent EEC agreements on

car emissions, the relative importance of heavy-duty diesel emissions will increase. Following our report, NSCA received confirmation from the Home Office that the police will only prosecute smoky diesels if they are belching so much black smoke as to be a road safety danger. This is clearly unacceptable.

A second issue is improving smoke emission standards for new diesel vehicles. NSCA believes that the UK government should be pressing for the tightest possible standards for both gaseous and particulate emissions, equivalent to the US 1994 standards. Whilst these may be difficult to meet with existing technology — particularly in the case of particulates — it is reasonable to assume that the R & D which is already being undertaken by manufacturers in order to meet US 1994 will enable European manufacturers to meet similar standards by 1995.

Consumer Affairs

1989 saw the emergence of a new phenomenon, the “Green Consumer”. Environmental awareness has clearly created a whole range of new marketing opportunities, and NSCA has been inundated with promotional material from companies keen to cash in on the green boom. Whilst it is refreshing to see consumer power being given the opportunity to discriminate in favour of environmentally friendly products, we must ensure that the public are not hoodwinked. All consumption creates some pollution and uses up resources and energy — the difficulty is to discriminate between alternatives which are more or less environmentally damaging. This is less straightforward than it might appear, and NSCA will be commenting shortly on a joint DTI/DOE consulta-

tion paper on “Environmental Labelling” for consumer products.

Straw and Stubble Burning

Once again the skies of Britain have been blackened by the annual stubble burn, and 1989 appears to have been a particularly bad year. NSCA’s report on the 1988 burn, brought out to coincide with the start of the ’89 harvest, sparked off considerable debate in the press by pointing out the contribution which burning makes to longer-range air pollution problems. However the main issue remains the local menace of smoke, smut, smell and ash which stubble burning creates, and the NSCA office was inundated with calls from angry victims of stubble fires. Sustained pressure resulted in appeals to farmers not to burn, from both the NFU president and a MAFF junior minister. We trust that our survey of the 1989 burn will provide the evidence that will finally lead to a complete ban on the practice.

Library and Information Service

Rising public awareness and changes in the educational syllabus has resulted in a virtual doubling of the demand for information and advice received by the Society’s Information Department. Over 4000 postal and telephone enquiries have been dealt with in the past year. In addition the department deals with specialist enquiries from environmental health departments, industry, and from an increasing number of journalists. The Information Department is supported by a 50% grant from the DOE.

Publications

With our new Editor in post, the backlog of delayed publications has at last been cleared and the production of “Clean

Air" is back on schedule. The updated NSCA Reference Book — now retitled the NSCA Pollution Handbook — has proved its value by completely selling out despite an increased print run for 1989. Order your 1990 copy now! Several new additions have been made to the range of public information leaflets including: Radiation and You; the Greenhouse Effect; Motor Vehicle Pollution; Indoor Air Pollution; and an updated Bonfire leaflet. Tens of thousands of these leaflets are printed and distributed each year. A third teaching pack — "Acid Rain" — has been produced, with a fourth, on the Greenhouse Effect, in the pipeline. Three special campaign reports have been produced in support of NSCA's lobbying work: "Unleaded Petrol — What's the Problem?"; "Dirty Diesels" and "NSCA Straw and Stubble Burning Survey 1988".

NSCA also produces publications for IUAPPA. In addition to a newsletter and handbook, the compendium "Clean Air Around the World" has been launched and is enjoying worldwide sales.

Conferences and Meetings

The 55th Clean Air Conference, held in October 1988 in Llandudno, attracted over 350 delegates who enjoyed the usual high standard of wide-ranging discussion and debate on pollution issues. For the second year running, the 1989 Spring Workshop was held at Lincoln College, Oxford, whose relaxed and convivial atmosphere attracted a capacity crowd to review the future for industrial air pollution control.

Publicity

At the time of our last Annual Report,

only five national newspapers boasted a specialist Environment Correspondent. There are now at least twelve. The media has in part reacted to the boom in green awareness, and in part has helped to fuel it. The result has been the need for NSCA staff to spend many hours on the telephone patiently explaining environmental fundamentals to journalists with new green portfolios. The hunger for environmental stories and information has made demands on NSCA resources, but has also ensured that our contacts within the media have expanded considerably. NSCA briefings now enjoy a very wide circulation, and coverage of our activities and views has increased correspondingly. Barely a week passes without NSCA receiving major exposure on TV, radio or in the press. Gratifying though this is, we must remember that such publicity is not an end in itself but rather a means by which we can raise public awareness of environmental issues and make the case for NSCA policy.

Concluding Remarks

This Annual Report to the Society gives me the opportunity on behalf of all members to record the thanks and appreciation to John Langston our Secretary General, and his dedicated team at our Brighton Headquarters. It has been a particularly busy year for them, with environmental and green issues coming very much to the fore. It was also the Society's 90th Anniversary which generated extra duties for the staff. Once again, their performance has been outstanding. Much of the hard work that goes on behind the scenes is largely unrecognised by the membership, yet without their support the Society would not be the successful

12 - Section 1

organisation it is today. There have been several changes in the staff over recent years and it was only this year that we have had the benefit of a full complement of officers. I would also like to record my thanks to John for all the help and friendly advice he has given to me during my term of office. It is always reassuring to know that he is on hand, and his guidance on many difficult issues is much appreciated by Chairmen of Committees.

It is also opportune to record the thanks of the Society to the Divisions who through their Chairmen, Secretaries and Divisional Councils, ensure that the membership has the opportunity to meet and discuss Clean Air issues. I had the privilege to visit and attend meetings of the Northern, Yorkshire and Humberside, East Midlands and London and South East Divisions, all of which were most interesting and well attended. I

regret that I was not able to attend meetings of other Divisions, which I know attracted similar levels of support. One pleasing item to report is the reorganisation of the Scottish Division which has been inactive over several years. Through initiatives taken by Officers of Glasgow City Council I anticipate that meetings will recommence soon. I am also pleased to say that the Northern Ireland Division is becoming active after a period of quiescence.

To my successor Frank Shephard, from British Gas and The Institution of Gas Engineers, may I offer my best wishes for a most successful year in the office of Chairman. I know the Society will be in very capable hands as it continues to evolve, extending its range of interests while ensuring its continued influence.

W.F. Snow
Chairman of Council

ACCOUNTS

THE NATIONAL SOCIETY FOR CLEAN AIR (Company Limited by Guarantee — Incorporated 5th December 1957)

BALANCE SHEET

31st MARCH 1989

	Notes	£	1989	£	1988	£
TANGIBLE FIXED ASSETS						
Office furniture and equipment	2 & 3					
Cost or valuation			32,490		28,868	
Accumulated depreciation			(27,315)		(22,485)	
			5,175		6,383	
Library books at nominal value			100		100	
			5,275		6,483	
CURRENT ASSETS						
Sundry debtors		12,185		5,711		
Prepayments		1,525		187		
		13,710		5,898		
Stock of publications	2	4,250		3,080		
Quoted investments	4	36,956		32,452		
Bank balances		118,980		104,314		
Cash in hand		138		139		
Funds held by divisions		1,517		1,337		
		175,551		147,220		
CREDITORS:						
Amounts falling due within one year:						
Sundry creditors and accrued expenses		(16,828)		(17,979)		
NET CURRENT ASSETS			158,723		129,241	
TOTAL ASSETS LESS CURRENT LIABILITIES			£163,998		£135,724	
GENERAL FUND						
Balance at start of year			97,146		82,752	
Surplus for the year			8,607		14,394	
Profit on disposal of quoted investments			4,667		—	
Balance at end of year			110,420		97,146	
PREMISES FUND			53,578		38,578	
			£163,998		£135,724	

The accounts were approved by the Council of the Society on 7th September 1989 and signed on its behalf by:

Air Commodore J. Langston — *Secretary General*

B.H. Edwick — *Honorary Treasurer*

The notes on pages 16 and 17 form part of these accounts

14 - Section 1

THE NATIONAL SOCIETY FOR CLEAN AIR

INCOME AND EXPENDITURE ACCOUNT for the year ended 31st MARCH 1989

		1989		1988	
INCOME	Notes	£	£	£	£
Subscriptions and donations	2		61,382		58,680
Conference, Llandudno, October 1988			35,379		—
Conference, Brighton, October 1987			—		31,767
Workshop, Oxford, March 1988			—		10,557
Symposium, London, January 1988			—		3,848
Sales of publications			50,063		26,455
Advertising Revenue					
Clean Air		2,820		1,864	
Members' Handbook		1,500	4,320	1,227	3,091
Investment income:					
Dividends		6,538		5,668	
Interest		9,905	16,443	7,232	12,900
Contributions from IUAPPA/ CICIND			21,223		21,086
Grant from the Department of the Environment	5		33,150		32,606
			221,960		200,990
EXPENDITURE					
Staff costs:					
Salaries and wages		80,501		76,320	
Social Security costs		8,246		7,731	
		88,747		84,051	
Other costs:					
Sub-contract printing		15,129		11,985	
Rent, rates, light and heat	6	7,080		11,871	
Insurance, travel, cleaning and general expenses		18,514		17,857	
Audit fee and financial advice		850		1,100	
Depreciation — Office furniture and equipment	2 & 3	4,830		3,697	
Stationery and supplies		3,257		3,768	
Provision for doubtful debts		—		65	
Irrecoverable VAT input Tax	7	2,487		1,860	
		140,894		136,254	
“Clean Air” and Members' Handbook		10,378		8,481	
Information and Publicity Services		6,771		6,587	
Research grants		350		840	
Cost of publications		25,150		10,242	
Divisional expenses		1,645		1,068	
		44,294		27,218	
Conference, Llandudno, October 1988		13,076		—	
Conference, Brighton, October 1987		—		13,709	
Workshop, Oxford, March 1988		89		6,808	
Symposium, London, January 1988		—		2,607	
		13,165	(198,353)	23,124	(186,596)
Surplus for the year			23,607		14,394
Transfer to Premises Fund			(15,000)		—
Transfer to General Fund			£8,607		£14,394

The notes on pages 16 and 17 form part of these accounts

THE NATIONAL SOCIETY FOR CLEAN AIR

STATEMENT OF SOURCE AND APPLICATION OF FUNDS

for the year ended

31st MARCH 1989

	1989 £	1988 £
SOURCE OF FUNDS		
Surplus for the year	23,607	14,394
Adjustment for item not involving the movement of funds:		
Depreciation	4,830	3,697
	<u>28,437</u>	<u>18,091</u>
Profit on disposal of quoted investments	4,667	—
	<u>£33,104</u>	<u>£18,091</u>
 APPLICATION OF FUNDS		
Purchase of tangible fixed assets	3,622	3,787
Change in net current assets:		
Increase (decrease) in debtors and prepayments	7,812	(372)
Increase in stock of publications	1,170	100
Increase in quoted investments	4,504	—
Increase in funds held by divisions	180	432
Decrease (increase) in creditors and accruals	1,151	(6,319)
Increase in bank and cash balances	14,665	20,463
TOTAL FUNDS APPLIED	<u>£33,104</u>	<u>£18,091</u>

NOTES TO THE ACCOUNTS for the year ended 31st MARCH 1989

1. LIABILITY OF MEMBERS

In accordance with clause 8 of the Memorandum of Association every member of the Society undertakes to contribute, in the event of the Society being wound up, such amount as may be required not exceeding 25 pence each.

2. ACCOUNTING POLICIES

- (a) Basis of accounting
The accounts are prepared in accordance with the historical cost convention.
- (b) Subscriptions
Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate.
- (c) Depreciation of tangible fixed assets
The cost of items of office furniture and equipment is written off by equal annual instalments over five years except electronic equipment which is written off over three years.
- (d) Stock of publications
Stock of publications are included at the lower of the Secretary General's valuation and net realisable value.

3. OFFICE FURNITURE AND EQUIPMENT

	Cost or valuation £	Accumulated depreciation £
At 1.4.1988	28,868	22,485
Additions	3,622	4,830
At 31.3.1989	<u>£32,490</u>	<u>£27,315</u>

Records are not available which show the original cost of items of furniture and equipment which were valued by the Secretary General as at 1.4.1972 at £1,910 and were included in the accounts at this figure, which is now fully depreciated. Subsequent additions, for which records are available, are included at cost.

4. QUOTED INVESTMENTS

	Cost		Market Value	
	1989 £	1988 £	1989 £	1988 £
Fixed interest	13,259	8,172	13,774	8,781
Ordinary shares	23,697	24,280	100,330	92,487
	<u>£36,956</u>	<u>£32,452</u>	<u>£114,104</u>	<u>£101,268</u>

5. GRANT FROM THE DEPARTMENT OF THE ENVIRONMENT

For the period 1988/89 the Society received a special grant from the Department of the Environment towards the cost of producing educational and teaching materials, undertaking research and running an advisory and information service on air pollution and noise.

6. PREMISES

During the year the Society's landlords undertook extensive building and remedial work on the entire building. The negotiated reductions in rent and rates have been accounted for in these accounts.

7. **IRRECOVERABLE VAT INPUT TAX**

The Society has been advised that it can only recover part of the VAT input tax paid. The charge of £2,487 is the amount of irrecoverable VAT written off in 1988/89.

8. **TAXATION**

As a registered charity the Society is not liable to tax on its income.

**REPORT OF THE AUDITORS TO THE MEMBERS OF
THE NATIONAL SOCIETY FOR CLEAN AIR**

We have audited the financial statements set out on pages 17 to 21 in accordance with approved Auditing Standards.

In our opinion the financial statements, which have been prepared under the historical cost convention, give a true and fair view of the state of affairs of the Society at 31st March 1989 and of its surplus of income over expenditure and source and application of funds for the year ended on that date, and comply with the Companies Act 1985.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

The Grove
Pipers Lane
Harpenden
Herts
AL5 1AH

7th September 1989

THE HEART OF THE COUNTRY



National Power

Why do we call National Power the Heart of the Country?
Because it generates more than half of the country's electricity.

Because it employs thirty thousand people running fifty
three Power Stations. Because it pumps billions of pounds into
the British economy every year.

Because without it the country simply couldn't tick.

National Power is currently a division of the CEB.

As National Power plc it will be one of the successor generating companies in England and Wales, competing to sell electricity.

SECTION 2

**Memorandum of Association
Articles of Association
Bye-Laws**

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1981 COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL MEMORANDUM OF ASSOCIATION OF THE NATIONAL SOCIETY FOR CLEAN AIR AND ENVIRONMENTAL PROTECTION

Adopted by Special Resolution 29 March 1974 and amended by Special Resolutions on 5 October 1981 and 23 October 1989

1. The name of the company (hereinafter called "the Society") is "**The National Society for Clean Air and Environmental Protection**".
- 2 The registered office of the Society will be situate in England.
- 3(1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.
- (2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.
(B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.
(C) To encourage the adoption of methods to reduce and prevent pollution.
(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.
(E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society's objects.
(F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.
(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.
(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.
(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such

investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.

(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.

(M) To take all such other steps as will further the attainment of the above objects or any of them. PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.

PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.

PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary of State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of the Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the

same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding 5s (25p).

9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their income and property among its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR
AND ENVIRONMENTAL PROTECTION

Adopted by Special Resolution 29 March 1974 and amended by Special Resolutions on 5 October 1981, 1 October 1984 and 27 October 1986.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa. Words importing the masculine gender only shall include the feminine gender and vice versa and words importing persons shall include corporations.

Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become the binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.
3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4 (i) of

these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4. (a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Society for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership:

Individual Members

(c) (i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member

(ii) On attainment of the age of 65 or retirement from salaried employment at the age of 60, whichever shall be earlier, Individual Members may, at the discretion of the Council, retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-Laws of the Society.

Local Authority Members

(d) (i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than five Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation *Local Authority* shall be deemed to include *Health Authorities* and *Water Authorities* or such other like authorities as the Council shall from time to time admit for membership.

Corporate Members

(e) (i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-Laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but if it desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-Laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

Sustaining Members

(f) Any member who subscribes not less than the sum prescribed in the Bye-Laws for this class of membership shall be eligible for admission as a sustaining Member.

Honorary Members

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the register of members of the

26 - Section 2

Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

Student Members

- (h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

Application for Membership

- (i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

Resignation of Members

- (j)
 - (i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.
 - (ii) The Council shall have the power to remove any member:
 - (a) whose annual subscription has remained unpaid for two successive years, or
 - (b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or
 - (c) at its sole discretion without assigning any reason therefore.
- Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

Annual Subscriptions

- (k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meetings as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETING

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings other than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental omissions to give notice of a meeting to, or the non-receipt of such notice by, any person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:
 - (a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.
 - (b) Appointing Auditors and fixing their remuneration.
 - (c) Receiving the results of the elections of the Council and other Officers.
11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.
12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.
13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a Member of the Society who shall be present to preside.
14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.
15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.
16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.
17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.
18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.
19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.
21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any

28 - Section 2

question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22. (a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27. (a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a term of three years and may stand for re-election.

(c) Vice-Presidents shall not exceed nine in number.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term *National or similar organisation* shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32. (a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32 (a).

33. The Office of a member of the Council shall be vacated:

- (a) If he ceased to be a member or a Representative of a member of the Society;
- (b) If by notice in writing to the Society he resigns his office;
- (c) If a receiving order is made against him or he makes any arrangement or composition with his creditors;
- (d) If he becomes of unsound mind;
- (e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
- (f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36. (i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation of the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by

30 - Section 2

Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

- (a) As to entrance fees (if any) payable in respect of membership of the Society.
 - (b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
 - (c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
 - (d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
 - (e) As to the manner in which the Elections of Officers and Council members shall be conducted.
 - (f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.
- (ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.
- (iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37 (i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In cases of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be present,

but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provisions of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superseded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

32 - Section 2

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS OF THE NATIONAL SOCIETY FOR CLEAN AIR AND ENVIRONMENTAL PROTECTION

Adopted by Ordinary Resolution dated 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980, 5 October 1981, 18 October 1982, 31 October 1983, 1 October 1984, 14 October 1985, 27 October 1986, 26 October 1987, 24 October 1988 and 23 October 1989.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) **Individual Members**

- (i) The annual subscription payable by an Individual Member shall be not less than £12.50. On attainment of the age of 65 or retirement from salaried employment at the age of 60, whichever shall be the earlier on payment of the sum of Twenty Five Pounds, Individual Members may, at the discretion of the Council, retain their membership of the Society in perpetuity, but always subject to the Council's right of removal.
- (ii) Individual Members may on payment of not less than Two Hundred and Fifty Pounds become Life Members of the Society.

(b) **Local Authority Members**

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£170.00
100,001 to 250,000	£206.00
250,001 to 500,000	£252.00
500,001 to 1,000,000	£329.00

For each additional 500,000 or part thereof - £32

(c) **Corporate Members** and unincorporated bodies appointed in accordance with Article 4 (e) (ii). The Annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:

- (i) Small local civic societies, colleges, schools and similar organisations - £22.00.
- (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms - £120.00.
- (iii) Industrial organisations - £170.00.

(d) **Sustaining Members**

The annual subscription for sustaining Members shall be not less than £200.00.

(e) **Membership - Special Cases**

The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3 (a) **Local Authority Members**

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) **Corporate Members**

- (i) Corporate Members elected to membership under Bye-law 2(c) (i) shall each be entitled to appoint one representative.

- (ii) Corporate Members elected to membership under bye-law 2(c)(ii) shall each be entitled to appoint three representatives.
- (iii) Corporate Members elected to membership under Bye-law 2(c)(iii) shall each be entitled to appoint five representatives.
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as Officers of Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members Handbook of the Society;
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5 (a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

- 1. **Scotland**
- 2. **Northern Ireland**
- 3. **Northern:** Cleveland, Cumbria (in part, only - Allerdale District Council, City of Carlisle and Eden District Council), Durham, Northumberland, Tyne and Wear.
- 4. **North West:** Cheshire, Clwydd, Cumbria (in part, only - Barrow-in-Furness Borough Council, Copeland District Council and South Lakeland District Council), Greater Manchester, Gwynedd, Lancashire, Merseyside.
- 5. **Yorkshire and Humberside:** Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
- 6. **West Midlands:** Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
- 7. **East Midlands:** Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire Nottinghamshire.
- 8. **Eastern:** Essex, Norfolk, Suffolk.
- 9. **London and South East:** East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
- 10. **Central Southern:** Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
- 11. **South West:** Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
- 12. **South and Mid Wales:** Wales except for Clwyd and Gwynedd.

- (b) Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.
- (c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.

- (d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

- 6 (a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.
- (b) Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.
- (c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

- 7 (a) The business of the Society shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.
- (b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen and the following Committees:
 - (i) Finance and Administration
 - (ii) Conference and Promotions
 - (iii) Technical
 - (iv) Parliamentary and Local Government
 - (v) Noise
 - (vi) Any other Committee considered by the Council to be necessary.
- (c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:
 1. To implement Council policy
 2. To ensure that the programme of the Standing Committees are comprehensive and appropriately interlocking
 3. To formulate proposals for policy changes
 4. To act on behalf of the Council in cases of urgency
 5. To report to the next following meeting of Council any action taken on its behalf.
- (d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the standing Orders of the Council.
- (e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

- 8 (a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the office of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.
- (b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual general Meeting.

36 - Section 2

- (ii) No member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.
- (c) Representatives of National or similar organisations (in accordance with Article 32(b)). Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.
- (d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

SECTION 3

Honorary Officers

Past Presidents 1929-1989

**Past Chairmen of Council
1958-1989**

The Council of the Society

Standing Committees

NSCA Staff

Who's Who 1989-90

HONORARY OFFICERS

President

SIR JOHN MASON, CB, DSc, FRS

Immediate Past President

THE RT HON LORD NATHAN, MA, FSA, FRSA, FRGS

Vice Presidents

KEN COLLINS, MEP

THE RT HON THE EARL OF CRANBROOK

JOHN EDMONDS

FRANK HAYNES, MP

SIR HUGH ROSSI, MP

MADRON R. SELIGMAN, BA, MEP

GARETH WARDELL, MP

PROFESSOR DAVID G. T. WILLIAMS

Honorary Treasurer

B.H. EDWICK, TEng(CEI)

Chairman of Council

DR. F. E. SHEPHARD, BSc, PhD, FRIC, CChem, FRSC, CEng,
FIGasE

Deputy Chairmen

A. J. REES

CLLR. MRS. E. J. INGLEFIELD, BA, RGN

Immediate Past Chairman

W. F. SNOW, MIEH, MIWM

PAST PRESIDENTS 1929 TO 1989

October 1929 to November 1943
Dr. H.A. Des Voeux
November 1943 to March 1946
Mr. Will Melland
March 1946 to September 1948
Sir George Elliston
September 1948 to September 1949
Lord Simon of Wythenshawe
September 1949 to September 1951
Dame Vera Laughton Mathews, DBE
September 1951 to October 1953
Alderman Professor F.E. Tylecote, CBE
October 1953 to October 1956
Sir Ernest Smith, CBE
October 1956 to December 1958
Dr. R. Lessing, CBE
December 1958 to March 1961
Sir Hugh Beaver, KBE
March 1961 to April 1963
The Rt. Hon. Lord Cohen of Birkenhead
April 1963 to May 1965
Dr. Albert Parker, CBE
May 1965 to May 1967
Sir Alan Wilson, FRS
May 1967 to April 1969
Sir John Charrington
April 1969 to June 1971
Sir Kenneth Hutchison, CBE, FRS
June 1971 to June 1973
Mr. Stanley E. Cohen, CBE
June 1973 to July 1975
Sir John Greenborough, KBE
July 1975 to July 1977
Professor P.J. Lawther, CBE
July 1977 to July 1979
Lord Flowers, FRS
July 1979 to October 1981
Lord Ezra, MBE
October 1981 to October 1983
Naomi E.S. Sargent
October 1983 to October 1985
Professor D.G.T. Williams
October 1985 to October 1987
Councillor L. Poole
October 1987 to October 1989
The Rt. Hon. Lord Nathan

PAST CHAIRMEN OF COUNCIL 1958 TO 1989

January 1958 to December 1958

Dr. J.S.G. Burnett

December 1958 to April 1962

Mr. J. Innes

April 1962 to April 1964

Dr. J.L. Burn

April 1964 to May 1967

Mr. J. Goodfellow

May 1967 to April 1969

Mr. A.C. Saword

April 1969 to September 1971

Dr. W.C. Turner

September 1971 to July 1973

Mr. S. Cayton MBE

July 1973 to July 1974

Mr. W. Combey

July 1974 to July 1975

Miss M. George CBE

July 1975 to July 1976

Mr. J. Clancey OBE, BEM

July 1976 to July 1977

Mr. P. Draper

July 1977 to July 1978

Mr. T.H. Iddison MBE

July 1978 to July 1979

Professor R.S. Scorer

July 1979 to July 1980

Mr. H.I. Fuller

July 1980 to October 1981

Mr. A.J. Clarke

October 1981 to October 1982

Mr. H. Giblin

October 1982 to October 1983

Mr. W.B. Twyford

October 1983 to October 1984

Councillor L. Poole BEM, JP

October 1984 to October 1985

Mr. M. Beaumont

October 1985 to October 1986

Mr. R.W.C. Wheatley

October 1986 to October 1987

Mr. I.W. Barker

October 1987 to October 1988

Mr. K.S. Dunn

October 1988 to October 1989

Mr. W. F. Snow

THE COUNCIL OF THE SOCIETY

APPOINTED REPRESENTATIVES OF NATIONAL BODIES

Association of Industrial Filter and Separator
Manufacturers

Mr. D. Morgan-Jones

British Coal

Mr. J.S. Harrison

British Gas

Dr. F.E. Shephard

British Steel

Mr. D.A. Harrison

UK Centre for Economic and Environmental Development

Mr. D.R. Cope

Central Electricity Generating Board

Mr. G.W. Barrett

Environmental Protection Equipment Manufacturers Association

Mr. K.S. Dunn

Filtration Society, The

Dr. R.W.K. Allen

Institute of Petroleum, The

Mr. J.H. Boddy

Institution of Environmental Health Officers, The

Mr. R. Webb

Institution of Gas Engineers, The

Ms. F. Church

Low Temperature Coal Distillers Association

Mr. N.M. Ross

Solid Smokeless Fuels Federation

Mr. I. MacKay

ELECTED REPRESENTATIVES FROM NSCA DIVISIONS

SCOTLAND - Division 1

3 Representatives

Mr. E. Gibson

NORTHERN IRELAND - Division 2

1 Representative

Mr. G. McCurdy

NORTHERN - Division 3

3 Representatives

Mr. K. Atkinson - Cllr. L. Poole

Cllr. T.W. Yellowley

NORTH WEST - Division 4

6 Representatives

Mr. M. Dickinson - Cllr. T. Jones

Mr. K.G. Kaufman - Mr. I.R. Liversidge

Mr. J.B. Simpson - Mr. W.F. Snow

YORKSHIRE AND HUMBERSIDE - Division 5

4 Representatives

Cllr. J.M. Bramley - Cllr. J. Carr

Mr. K. Kelly - Cllr. G.M. McDade

WEST MIDLANDS - Division 6

3 Representatives

Cllr. J.R. Griffiths - Cllr. T. Short

Mr. T. Townsend

EAST MIDLANDS - Division 7

5 Representatives

Cllr. R.S. Chamberlain - Mr. K.R. Enderby

Mr. F. Haynes MP - Cllr. Mrs. E.J. Inglefield

Cllr. R.F. Ogilvie

LONDON AND SOUTH EAST - Division 9

9 Representatives

Dr. D. Ball - Mr. J.J. Beagle - Mr. M. Beaumont

Mr. J. Clancey - Mr. P. Cooney - Mrs. E.M.L. Naylor

Professor R.S. Scorer - Cllr. Mrs. B.J. Solkhon

Mr. J. Wade

CENTRAL SOUTHERN - Division 10

3 Representatives

Dr. R.A. Barnes - Mr. P. Legge - Mr. A.J. Rees

SOUTH WEST - Division 11

3 Representatives

Mr. H. Dawson - Mr. H. Nowell - Mr. B.H. Young

SOUTH AND MID WALES - Division 12

4 Representatives

Cllr. Dr. J.R.P. Evans - Mr. T. Jones

Cllr. H.I. Thomas - Mr. R. West

STANDING COMMITTEES

The President, Hon. Treasurer, Chairman, Deputy Chairmen,
Immediate Past Chairman and Immediate Past President
are all ex-officio members of all five Standing Committees.

Finance and Administration Committee

Mr. M. Beaumont - Mr. M. Dickinson - Cllr. J.R.P. Evans

Mr. I.R. Liversidge - Cllr. G.M. McDade

Mr. H.R. Nowell - Cllr. T.W. Yellowley

Chairman, Conference and Promotions Committee -

Cllr. R. S. Chamberlain

Chairman, Noise Committee - Mr. H. Dawson

Chairman, Parliamentary and Local Government Committee -

Mr. W. F. Snow

Chairman, Technical Committee -

Mr. J. H. Boddy

Co-opted

Cllr. L. Poole

Conference and Promotions Committee

Cllr. J.M. Bramley - Cllr. R.S. Chamberlain

Mr. K.R. Enderby - Mr. E. Gibson - Cllr. T. Jones

Mrs. E.M.L. Naylor - Cllr. R.P. Ogilvie - Cllr. L. Poole

Cllr. Mrs. B. J. Solkhon - Cllr. H.I. Thomas

Co-opted

Mr. C.J. Brooks - Mr. P. Cooney

Noise Committee

Mr. K. Atkinson - Mr. G.W. Barrett - Mr. J.J. Beagle

Mr. P. Cooney - Mr. H. Dawson - Mr. K.G. Kaufman

Mr. P. Legge - Cllr. L. Poole

Mr. T. Townsend - Mr. J. Wade

Co-opted

Mrs. I. Brain - Mr. J. Evans - Mr. P. T. Freeborn

Mr. A.J. Gibbon - Mr. D.R. Romaine

Dr. W.A. Utley - Mr. G.H. Vulkan

Parliamentary and Local Government Committee

Cllr. J. Carr - Cllr. J. Griffiths - Mr. J. S. Harrison

Mr. T. Jones - Mr. K. Kelly - Mr. I. MacKay

Mr. N.M. Ross - Cllr. T.E. Short

Mr. R. Webb - B.N. Young

Co-opted

Cllr. L. Poole

Technical Committee

Dr. R.W.K. Allen - Dr. D. Ball - Dr. R.A. Barnes

Mr. G.W. Barrett - Mr. J.J. Beagle - Mr. J.H. Boddy

Ms. F. Church - Mr. P. Cooney - Mr. D. Cope

Mr. H. Dawson - Mr. P. Legge - Professor R.S. Scorer

Mr. J.B. Simpson - Mr. R. West

Co-opted

Dr. S.R. Craxford - Dr. M. Fox - Dr. K. Gregory

Dr. D. Laxen - Mr. B. Lees - Cllr. L. Poole

Dr. C. Schofield - Mr. L. Stuffins

Mr. R.E. Waller - Dr. M. Williams

NSCA STAFF

Secretary General

Air Commodore John Langston, CBE, FBIM

Administration, Accounts

Production and Sales of Publications

Administration Manager

Peter J. Mitchell

Secretary to Secretary General and Administration Manager

Council and Standing Committees Administration

Wendy Messer

Membership, Publication Sales and Conference Registrations

Kathy Lennon

Editorial, Information and Public Relations

Editor

Loveday Murley

Information and Public Relations Officer

Tim Brown

Assistant Information Officer

Mary Stevens

Secretary to Information Department

Tricia Sice

WHO'S WHO

SIR JOHN MASON, CB, DSc, FRS, President of the National Society for Clean Air and Environmental Protection, is Chairman of the Co-ordinating Committee on Marine Science and Technology, which is charged with producing a national strategy for these subjects.

He is currently Director of the Surface Waters Acidification Programme carried out under the auspices of the Royal Society, the Royal Swedish Academy of Science and the Norwegian Academy of Science and Letters. He is also President of the University of Manchester Institute of Science and Technology and Chairman of the Scientific Management Committee of the World Climate Research Programme.

Sir John was born in 1923, graduated BSc (1947) University of London, and awarded DSc in 1956. He was Director-General of the Meteorological Office from 1965 to 1983. Earlier appointments include Warren Research Fellow of the Royal Society (1957), Visiting Professor of Meteorology, University of California (1959-60), Professor of Cloud Physics at Imperial College, London (1961-65).

He was elected a Fellow of the Royal Society in 1965, was President of the Royal Meteorological Society 1969-70, President of the British Association for the Advancement of Science 1982-83, Permanent Representative of the United Kingdom at the World Meteorological Organisation and a Member of its Executive Committee from 1965-83. He was President of the Institute of Physics from 1976-78 and was Treasurer and Senior Vice-President of the Royal Society from 1976-1986. He was a member of the ABRC from 1982-86.

He was awarded the Charles Chree Medal and Prize of the Physical Society (1965), the Glazebrook Medal of the Institute of Physics (1974), the Rumford Medal of the Royal Society (1972) for his discoveries on clouds, rain, and especially the origin of lightning, on which he delivered the Bakerian Lecture of the Royal Society in 1971. He was awarded the Symons Memorial Gold Medal of the Royal Meteorological Society (1975). He was created CB in 1973 and knighted in 1979.

The Rt. Hon. LORD NATHAN, MA, FSA, FRSA, FRGS, Honorary Doctor of Laws (Sussex), Immediate Past President of the Society, has been a member of the Royal Commission on Environmental Pollution since 1979. He was a member of the House of Lords Select Committee on the European Communities and was Chairman of its Environment Sub-Committee (1983-87).

He is a solicitor and consultant to Denton Hall Burgin & Warrens, Solicitors, London, and was, until recently, senior partner of Herbert Oppenheimer, Nathan and Vandyk, Solicitors, London. He has been an associate member of the Bar Association of the City of New York and of the New York County Lawyers Association for many years. He is a member of the International Bar Association and gave the opening address at their Environment meeting in Singapore in 1983. He is President of the UK Environmental Law Association and gave the inaugural Garner Lecture in 1987. He gave the Macmillan Education Lecture in 1977 on Energy and the Environment. He has written and spoken extensively on environmental issues.

Lord Nathan is a Vice President of the Royal Society of Arts (Chairman 1975 - 77 and subsequently Chairman of its Environment Committee). He was Chairman of a Working Party on Energy and the Environment which reported in 1974.

KEN COLLINS, MEP, Vice-President of the Society, was educated at Hamilton Academy, the University of Glasgow and Strathclyde University. He was for three years an apprentice metallurgist with Dalzell steelworks, Motherwell, before attending university. Subsequently, he worked as a Planning Officer with Glasgow and then West Yorkshire (1965 - 1967); organiser tutor, Workers' Educational Association (1967 - 1968); teacher, Glasgow College of Building 1968 - 1970; and Lecturer in Urban Studies, Paisley College of Technology 1970 - 1979. He has been an MEP since 1979. He was a Member of East Kilbride Town and District Councils 1973- 1979, and a Board Member, East Kilbride Development Corporation 1976 - 1979. Ken Collins was Spokesman on Environment, Public Health and Consumer Protection for the Socialist Group of the European Parliament (1984 - 1989). He was elected Chairman of the European Parliament's Committee on the Environment, Public Health and Consumer Protection in July 1989, having formerly been the Committee's Chairman from 1979 - 1984 and Vice-Chairman from 1984 - 87.

The Rt. Hon. THE EARL OF CRANBROOK, MA, PhD, DSc (Hon), DL, Vice-President of the Society, is a graduate of the universities of Cambridge and Birmingham. From 1956 - 1970, he was employed as a biologist in several posts in S.E. Asia. Lord Cranbrook has been a member of the Royal Commission on Environmental Pollution since 1981 and of the Natural Environment Research Council 1982-88. A member of sub-committee 'G' (Environment), House of Lords Select Committee on the European Communities, he was Chairman from 1980 - 1983 and again, 1987; Lord Cranbrook is President of the Suffolk Wildlife Trust and Suffolk Naturalists' Society. Since 1987, he has been a non-executive member of the Board of Anglian Water plc. Since 1988 he has been a member of The Broads Authority and since 1989 a member of the Harwich Haven Authority. He is married, with two sons and a daughter, and now lives and farms in Suffolk.

JOHN EDMONDS, Vice-President of the Society, has been General Secretary of the GMB (formerly the General, Municipal, Boilermakers and Allied Trades Union). Educated at Christ's Hospital and Oriel College Oxford (BA 1965, MA 1968) he became in 1966 Research Assistant at the General & Municipal Workers Union; subsequently Deputy Research Officer (1967), Regional Officer (1968) and National Industrial Officer (1972 - 1985); Member of the Royal Commission on Environmental Pollution since 1979; Visiting Fellow, Nuffield College, Oxford since 1986; Governor, London School of Economics since 1986, Trustee of Institute for Policy Research; and a Director of Unity Trust Bank plc.

D. FRANK HAYNES, MP, Vice-President of the Society, was elected MP for Ashfield in the May 1979 general election. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

SIR HUGH ROSSI, MP, Vice-President of the Society, was educated at Finchley Catholic Grammar School and King's College, University of London. He subsequently qualified with honours as a solicitor. Among other appointments, Sir Hugh was Government Whip for the Conservative Party from 1970-74 and Parliamentary Under-Secretary of State at the DOE in 1974. Opposition spokesman on Housing and Land 1974 - 1979. Minister of State Northern Ireland Office 1979 - 1981 and Minister of State for Social Security 1981-3. From 1972-3 he was Deputy Leader of the UK Delegation to the Council of Europe and the Western European Union, and has been Chairman of the House of Commons Select Committee on the Environment since 1983. Sir Hugh was knighted in 1983 and became Knight Cmdr. St. Gregory in 1985.

MADRON R. SELIGMAN, BA, MEP, Vice-President of the Society, was educated at Harrow School and Balliol College, Oxford, where he was President of the Oxford Union in 1940. Mr. Seligman has been a Member of the European Parliament representing Sussex West since 1979, where he is Conservative Spokesman for Energy Research and Technology, and a member of the Committees for Environment and Education. He was Chairman of the Incinerator Company Ltd. until September 1989.

GARETH L. WARDELL, MP, Vice-President of the Society, is a graduate of the London School of Economics and Political Science. From 1972-73 he was a Lecturer in Education at Bedford College of Physical Education and from 1973-82 Senior Lecturer in Geography at Trinity College, Carmarthen. He is a Fellow of the Royal Geographical Society and has been MP for Gower since 1982. Mr. Wardell has been Chairman of the Select Committee on Welsh Affairs since 1984.

PROFESSOR D.G.T. WILLIAMS, MA, LLB, Vice-President of the Society and a Past President of the Society, has been Vice-Chancellor of the University of Cambridge since October 1989, President of Wolfson College, Cambridge, since October 1980, and Rouse Ball Professor of English Law since 1983. His academic interests lie principally in the fields of constitutional and administrative law, and in recent years he has been particularly interested in matters relating to the environment. He was a member of the Clean Air Council 1971 - 1979, of the Commission on Energy and the Environment 1978 - 1981, and of the Royal Commission on Environmental Pollution 1976 - 1983. In addition, he was a member of the Council on Tribunals, 1972 - 1982. David Williams was born in Carmarthen in Wales, went to University of Cambridge, and was called to the Bar in 1956. He was a Commonwealth Fund (Harkness) Fellow in the United States, 1956 - 1958, and taught at the Universities of Nottingham and Oxford before returning to Cambridge in 1967.

FRANK E. SHEPHARD, BSc, PhD, FRIC, CChem, FRSC, CEng, FIGasE, represents British Gas plc and The Institution of Gas Engineers. He is Chairman of the Council of the Society and former Chairman of its Finance and Administration Committee. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. After a period as Assistant Manager responsible for the Environmental Studies Group within the Analytical Division of London Research Station he is now Manager of that Division. He also has a special responsibility for outdoor environmental matters within the R & T Division of British Gas. He is a member of The Institution of Gas Engineers Environmental Studies Committee.

BILL F. SNOW, MIEH, MInstWM, is Immediate Past Chairman of the Council of the Society, Chairman of the Society's Parliamentary and Local Government Committee, and represents the North West Division, NSCA. He commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC, Carlisle. He was appointed district Public Health Inspector to Accrington BC in 1962 and Deputy Chief Public Health Inspector to Warrington RDC in 1969. He was appointed to the post of Chief Environmental Health Officer to Warrington BC in 1974. The post was redesignated to its present title Assistant Director of Technical Services (Environmental Health) in April 1989. Bill Snow has been a member of the North West Divisional Council since 1976 and was elected Chairman, for a 2 year term, in 1981. He has served on the Council and Technical Committee of the Society since 1979, being Chairman of the latter from November 1984 until 1988.

ALAN J. REES is Senior Deputy Chairman of the Council of the Society, Chairman of the Society's Finance and Administration Committee, and former Chairman of the Society's Conference and Promotions Committee. He represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. From 1978 to 1983 he was Honorary Secretary of London & South East and Central Southern Divisions, and is a past Chairman of the Joint Divisions.

CLLR. MRS. E. JANE INGLEFIELD, BA, RGN, Deputy Chairman of the Council of the Society, represents the East Midlands Division, NSCA, and is Deputy Chairman of the Parliamentary and Local Government Committee; she has been a member of the Divisional Council of the East Midlands for the past 13 years and is the Chairman of Housing for High Peak Borough Council. She is a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. Mrs. Inglefield is currently working for the Marie Curie Memorial Foundation as the Regional Co-ordinator of Community Nursing Services for Trent, Mersey & North West Regions.

BRIAN H. EDWICK, Honorary Treasurer of the Society, is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers.

DR. RAYMOND W.K. ALLEN, BSc, MSc, PhD, CEng, FICChem E, represents the Filtration Society and serves on the Society's Technical Committee. He is a member of the Academic Advisory Panel of the Hughenden Foundation. He is a chemical engineer by training and runs the gas cleaning group of the Separation Processes Service, based at the Harwell Laboratory. His principal area of interest is research into better and cheaper ways of designing air pollution control equipment. He has published over 50 papers and reports on all aspects of this subject. Dr. Allen is technical editor of the Journal, 'Filtration and Separation' and a frequent industrial consultant on matters of emission control.

KEITH ATKINSON, Honorary Secretary of the Northern Division, NSCA, is Assistant Environmental Health Officer, Darlington Borough Council. He entered local government in 1963 as a Pupil Health Officer, and worked for several local authorities after qualifying. His main interests in environmental aspects are noise and air pollution. He was involved with the Darlington Quiet Town Experiment (1976 - 78). He was elected Honorary Secretary of the Northern Division in 1989 after representing Darlington Borough Council for many years.

DR. DAVID J. BALL, D.Phil, FInstP, FRSH, is a member of the Technical Committee of the Society and represents the London and South East Division, NSCA. Currently a member of the Environmental Risk Assessment Unit of the University of East Anglia, he was formerly Head of the GLC's Pollution Monitoring Group and LSS's Material Sciences Division. His interests include the assessment and management of risks associated with the natural environment, environmental pollution, occupational hazards and human activities in general. Dr. Ball has participated in a number of the Society's Workshops and is a regular contributor to 'Clean Air'.

DR. RON A. BARNES represents the Central Southern Division, NSCA, and is Chairman of the Society's Climate Change Working Group. He graduated from University College London in 1969 and was awarded his PhD in 1975 for research into the long range transport of atmospheric smoke and sulphur dioxide. After a period of mixed air pollution consultancy and university teaching during and after his PhD, he was appointed to the DOE's Central Unit on Environmental Pollution. He later joined Esso Petroleum Co.Ltd., where he is responsible for all air pollution research activities and for providing strategic environmental planning information relevant to company operations and products. In 1978 Dr. Barnes was seconded from Esso to the United Nations to prepare a consultant's report on all aspects of the long range transport of air pollution. This report was used as the technical basis for the UN ECE Convention on Transboundary Pollution.

GEORGE W. BARRETT represents the Central Electricity Generating Board. Having graduated from the University of Manchester in 1968 with an Honours degree in Physics, he was subsequently awarded an MSc in Applied Acoustics from the University of London. For three years he worked in the Acoustics Laboratory of the British Aircraft Corporation at Weybridge where he dealt with all aspects of aircraft noise. In 1972 he joined the Planning Department of the Central Electricity Generating Board where he was a Group Head in the Environment Section, dealing with all aspects of environmental policy and planning for power generation. He is now with the Power Gen Division of CEGB, where he is the Section Head responsible for Environmental Assessment.

JOSEPH J. BEAGLE, BA(Hons), MIEH, represents the London & South East Division, NSCA, having become Honorary Secretary on his retirement from local government in 1983. He was a Divisional EHO with the London Borough of Hammersmith & Fulham where he was responsible for noise and air pollution control matters, including investigations into lead pollution and asbestos control. Mr. Beagle is a member of the Technical and Noise Committees and the Civil Nuclear Power Working Group, and now works as an Environmental Health Consultant.

MAX BEAUMONT, FInstE, FIMechIE, MIPI, is a Past Chairman of the Council of the Society, and represents the London and South East Division, NSCA. He was educated at Dulwich College, joined the family firm as an apprentice steeplejack and served as pilot RAFVR 1940-46. He is founder member and past Chairman of the Environmental Protection Equipment Manufacturers' Association, Past President of the National Federation of Master Steeplejacks, Secretary of CICIND. Past Chairman of the Inst. Mechanical Incorporated Engineers, Industrial Fuel Economy Group, Construction Health and Safety Group and British Flue and Chimney Mfgs. Assoc. He is a member of various BSI Technical Committees and a holder of 4 British patents. Max Beaumont is Chairman of F.E. Beaumont Ltd, Steeplejacks & Engineers.

JOHN BODDY is a consultant on petroleum fuels and environmental matters. He is Chairman of the NSCA Technical Committee on which he has served for many years, and he has been a member of the London and South East Divisional Council for the past three years. Before becoming a consultant he was employed by Mobil Europe Inc, Mobile Oil Co. Ltd and BP, mainly on product research and environmental matters. Mr. Boddy was also engaged in joint activities of the Motor and Petroleum Industries in Europe - on motor vehicle and engine emission control - in which sphere he chaired the Fuels Committee of the Co-ordinating Council for the development of performance tests for lubricants and engine fuels. He served on the Council of the Institute of Petroleum from 1979 to 1981.

CLLR. J. MAKIN BRAMLEY represents the Yorkshire & Humberside Division, NSCA. A farmer in private life, he has been a member of District Councils for 30 years and Chairman of the Environmental Health Committee for the last twelve years. He is a member of the North Yorkshire County Council and a former member of the Yorkshire Water Authority; he currently chairs the Central Consultative Committee and is Vice Chairman of the Hull and Goole Port Health Authority. Cllr. Bramley is a member of the Provincial Council and also of the Yorkshire and Humberside Pollution Advisory Council.

CLLR. JACK CARR represents the Yorkshire & Humberside Division, NSCA. As Health Committee Chairman of Rawmarsh UDC he served as a member of the Sheffield and District Clean Air Committee 1967 -73. In 1973 he became a member of the Yorkshire & Humberside Division of the Society and in the same year became a member of Rotherham's Environmental Health Committee. He has also held senior posts on Rotherham's Education Committee. In 1988 he became Chairman of the Environmental Health Committee and Chairman of South Yorkshire Joint Waste Committee and Hazardous Waste Unit. He also serves on the A.M.A. Environmental Health and Consumer Protection Committee.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA, and is Chairman of the Conference & Promotions Committee. He has been a member of the East Midlands Division for twenty years, Chairman of the Division 1987-88 and a Member of the Council of the Society since 1974. He has been a Member of the Ashfield District Council and Kirby-in-Ashfield UDC for over twenty years, was Chairman of the Kirby-in-Ashfield UDC Health Committee from 1971/74 and Chairman of the Ashfield DC Environmental Health Committee, 1974 to 1983. Cllr. Chamberlain was elected Chairman of the Central Nottinghamshire Community Health Council in February 1981 and became a member of the Central Nottinghamshire District Health Authority in 1982 and Vice Chairman in 1987. He is a Justice of the Peace.

MS FAITH CHURCH, BSc, MSc, MIGeol, MIWEM, FGS, MIES, represents the Institution of Gas Engineers. Educated at Lancaster University and University College London, she began her career working for Anglian Water as an Hydrologist then Hydrogeologist. In 1986 she joined the London Research Station of British Gas and early in 1987 became a Senior Scientist in the Environmental Studies Group, providing an environmental consultancy as well as continuing her hydrogeology work. In October 1989 she took the post of Principal Scientist, leading the research programmes off our scientists involved in air pollution and water treatment studies. She joined the Council of the NSCA in early 1989. She is co-author, with Dr. Frank Shephard, of 'The Gas Industry Contribution to Clean Air' which was presented to the Society's 1987 Conference in Brighton.

JAMES C. CLANCEY, OBE, FIWEM, FIEH, FRSH (Hon), MIEnvSc, MAmerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is a past Vice President of the Institution of Public Health Engineers; he is also an Hon. Fellow of the Institution of Water and Environmental Management; an Hon. Fellow and Life Vice President of the Royal Society of Health and a past Vice President of the Institution of Environmental Health Officers. He was Chairman of the Council of the Society, 1975/76 and has for thirty-eight years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

PAUL A. COONEY represents the London and South East Division, NSCA. He is a Principal Environmental Health Officer at the London Borough of Greenwich and heads a specialist unit responsible for all aspects of pollution control. Throughout his career he has taken a keen interest in the biological effects of heavy metals and toxic substances and has assisted in the successful completion of nine major epidemiological blood-lead

studies involving children. He has provided evidence to Royal Commissions for their 9th and 10th Reports and, more recently, the Select Committee inquiring into contaminated land. Greenwich has a particular problem with the development of its contaminated land and Mr. Cooney continues to campaign for a satisfactory long-term solution to this problem. His group 'manages' asbestos in public sector housing and local authority buildings and also acts as a specialist adviser to the Council on other environmental issues. Believing in the proper use of planning powers in controlling the environmental impact of pollution, his team concentrates on supporting and advising planning colleagues. Mr. Cooney lectures to a variety of groups on pollution matters and currently sits on the Society's Technical Committee.

DAVID R. COPE is Executive Director of the UK Centre for Economic and Environmental Development (UK CEED), an independent policy research unit, supported by UK charitable foundations, industrial and commercial interests and central government, which promotes the economic analysis of environmental problems in the UK. He is Special Lecturer in Energy and Environmental Studies at the University of Nottingham and a visiting lecturer at Cambridge University. From 1987-89 he was a member of the CEEB's independent Environmental Development Advisory Panel. He is a member of Friends of the Earth's Air Pollution Advisory Panel and of the Management Board of the DoE's Environmental Protection Technology Scheme. He has served on the Watt Committee on Energy's Nuclear Safety and Acidification Working Groups and the Fellowship of Engineering's Acid Emission Abatement Task Force. A Professional Associate of the Institute of Energy and a member of the British Institute of Energy Economics, he has written and lectured widely on all aspects of the economics of energy use and the environment.

HYLTON DAWSON is the Company Safety Engineer at Rolls-Royce plc and represents the Society's South West Division of which he is Chairman. He is co-patentee of two designs of silencer for supersonic jet engines and in 1971 was awarded the President's Gold Medal of the Society of Engineers. He has a particular interest in low frequency acoustics. He is Chairman of the NSCA's Noise Committee and author of the NSCA book 'Noise and Society'. Mr. Dawson represents the NSCA on the governing body of the International Association Against Noise (AICB).

MAURICE DICKINSON, MBE, MIEH, MRSH, represents the North West Division, NSCA. He has held the post of Chief Environmental Health Officer for the Borough of Trafford since 1974. Prior to that he was Chief Public Health Inspector at Altrincham from 1957 to 1974. A Member of the Institution of Environmental Health Officers and a Member of the Royal Society of Health, he is keenly interested in all forms of pollution

and is involved with the Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and at present serves on the Finance and Administration Committee. He is also a Member of the Manchester Area Pollution Advisory Council.

KENNETH S. DUNN, CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers' Association). He is a Past Chairman of the Council of the Society and currently represents the Society on the Executive Committee of the International Union of Air Pollution Prevention Associations. He has been Managing Director of the Incinerator Co. Ltd. - a founder member of EPEMA - since 1969 and was formerly a director of Robey and Co. Ltd., Lincoln, where he had special responsibility for shell boiler development.

KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He is City Environmental Health Officer, Peterborough City Council, and has been a representative of Peterborough City Council to the NSCA for over 25 years, and a member of the East Midlands Division for more than 20 years (Deputy Chairman 1976/77 and 1988/89, and Chairman 1977/78 and 1989/90). He has been a Member of the Council of the Society and of the Conference and Promotions Committee since 1974.

JOHN R. P. EVANS, ACP, MBIM, LRSC, MEd, PhD, is Chairman of the South and Mid Wales Division, NSCA. A Chemistry graduate, he has worked as an industrial chemist with ICI Fibres and the British Steel Corporation. He taught for several years, and is currently Warden of an Adult Education Centre. Dr. Evans was elected a Member of the Rhymney Valley DC in 1976 and was an Executive Member of the Labour Party (Wales).

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last nine years he has been a Member of the Scottish Division, NSCA, and he is specialist Pollution Control Officer, City of Edinburgh District Council. Mr. Gibson serves on the Society's Conference and Promotions Committee.

CLLR. JOHN R.A. GRIFFITHS represents the West Midlands Division, NSCA, and is a member of the Parliamentary & Local Government Committee. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. He was first

elected to Worcester City District Council in 1973 and re-elected in 1980, and was elected to Hereford and Worcester County Council in May 1989. Cllr. Griffiths is Chairman of the Environmental Services Committee, Worcester City DC and Vice-Chairman of Worcester City Health Committee. He has been Chairman or Vice-Chairman of Midland Joint Advisory Council on Clean Air and Noise and a member of the West Midlands Division, NSCA, for the last eight years. He has recently taken early retirement after 25 years with Hereford and Worcester Fire Brigade.

DAVID A. HARRISON represents British Steel plc. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BS Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BS.

JAMES S. HARRISON, Director of the Coal Research Establishment, represents the British Coal Corporation. A Fellow of the Royal Society of Chemistry and of the Institute of Energy, he was recently given the Institute's Special Award, and presented the BCURA Robens Coal Science Lecture in 1988. He is Chairman of IEA Coal Research, and of Combustion Systems Ltd., a company owned jointly by BP and British Coal Corporation, and a member of the Board of Coal Products Ltd. He is a member of the Research Committee of the European Coal Producers and has served on the Sub-Committee of Energy R&D of the Commission of the Common Market and on Advisory Committees of the IEA and of the UK Government. He is particularly interested in the environmental aspects of energy production and has recently given evidence on the greenhouse effect to Select Committees of the House of Commons and the House of Lords.

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He is employed by Torfaen Borough Council as Principal Environmental Health Officer and is currently responsible for the waste regulatory functions of the Authority. He is a Past Chairman of the Gwent Branch of the Institution of Environmental Health Officers and currently the appointed Hon. Secretary of the South and Mid Wales Division, NSCA.

CLLR. THOMAS JONES represents the North West Division, NSCA. He has been a Councillor since 1970, first as a member of Ashton-in-Makerfield UDC and then under the reorganisation of Local Authorities he became a member of Wigan MBC. Throughout this political career he has held a variety of positions including Mayor of Wigan in 1982. He is also a former Chairman of the Manchester Council for Clean Air and is now the delegate for the Association of Greater Manchester Authorities on this Committee.

K.G. (GEOF) KAUFMAN represents the North West Division of the Society of which he has been Honorary Secretary since 1987. He is Divisional Environmental Health Officer, heading the Pollution Control Unit, at Tameside Metropolitan Borough Council. He has held several appointments with local authorities in the Greater Manchester Area and is active on the Manchester Area Pollution Advisory Council, being a member of its Technical Committee and past Secretary of its Noise Working Group. He is a member of the Society's Noise Committees.

KEN KELLY represents the Yorkshire and Humberside Division of the Society and was appointed Divisional Secretary in September 1987. He is Deputy Director of Environmental Health for Rotherham MBC and has held appointments with Doncaster MBC, Doncaster RDC and Leeds CBC. During the thirty years he has been in local government he has always been associated with the implementation and progression of pollution control in its many facets. He is a member of the Society's Parliamentary and Local Government Committee.

PATRICK LEGGE, BSc (Hons), MIEH, represents the Central Southern Division, NSCA, and serves on the Society's Technical Committee. After qualifying with Wycombe DC, he moved to Dudley MBC specialising in pollution control. Here he gained extensive experience in promoting smoke control areas, and also in most forms of air pollution in the heart of the "Black Country". A move to the London Borough of Ealing continued his experience in pollution control, with particular emphasis on noise control. He is now a Principal Environmental Health Officer with Slough BC, with special responsibility for pollution matters.

IAN R. LIVERSIDGE, FRSH, MIEH, represents the North West Division NSCA, and serves on the Finance & Administration Committee. Mr. Liversidge operates an Industrial Liaison Committee with representatives of both local industry and the Council, which evaluates and tries to ameliorate the problems of local industry as a polluter.

IAN MACKAY represents the Solid Smokeless Fuels Federation and is a member of the Parliamentary and Local Government Committee. Having joined the National Coal Board in 1948, he served in various departments, particularly marketing, and became District Sales Manager for Teesside. In 1970, he joined Associated Heat Services Limited as Sales Manager and in 1982 was appointed General Manager of the Solid Smokeless Fuels Federation. He was Chairman of the North East Coal Industry Society in 1980. Mr. MacKay is an associate member of the Institute of Marketing.

GERARD McCURDY represents the Northern Ireland Division, NSCA. He is a Senior Environmental Health Officer at Carrickfergus Borough Council, where he has specialist responsibilities in pollution control, health and safety and licensing. His experience in pollution control has been primarily related to noise control and he has presented evidence to major planning enquiries as well as producing reports on such subjects as the re-zoning of industrial land for housing development. In 1989 he became Divisional Honorary Secretary of the Northern Ireland Division of the Society.

GERALD M. McDADE represents the Doncaster Metropolitan Borough Council Yorkshire and Humberside Division. He was a member of Thorne RDC from 1959 to 1974, and was Chairman in 1963 and 1970. He has been Chairman of various Committees including Public Health for Doncaster Metropolitan Borough Council since 1974, and was Mayor 1975-76. He is the Vice Chairman, Planning Committee, a local magistrate and Vice Chairman of the NSCA Yorkshire and Humberside Division. He is retired, having previously been in Management for ICI Fibres.

DIGBY MORGAN-JONES represents the Association of Industrial Filter and Separator Manufacturers (formerly the Industrial Gas Cleaning Association). He is a Fellow of the Institute of Chartered Accountants in England and Wales, and Partner in the firm of Crane Partners. He has been Chairman of IGCA since 1972 and of the AIFSM from its formation.

MRS. E.M.L. (PAT) NAYLOR, MIHEc, MRSH, ARCA, is Chairman of both the London & South East and Central Southern Divisions. She was associated with the Women's Solid Fuel Council for 30 years until its demise in September 1989. Mrs. Naylor is a Lecturer in Home Economics in England and America. She is a member of the BBC Local Radio Council; of the British Standards Institution; of the Kitchen Planning SFC Committee and of the United Kingdom Home Economics Federation. Mrs Naylor is also a Past President of the United Kingdom Federation of Business and Professional Women. She is a member of the Society's Conference and Promotions Committee.

HOWARD NOWELL has recently retired as Honorary Secretary of the South West Division. He has spent the greater part of his professional career with Bath City Council where he is now Principal Environmental Health Officer with special responsibility for environmental pollution control. He has served on numerous pollution related bodies and is a founder Member and Past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee.

CLLR. ROBERT F. OGILVIE represents the East Midlands Division as Vice Chairman, NSCA, of which he has been a member since 1979. He has been a member of Corby District Council since 1973 and is a member of the Policy and Planning, and Environmental and General Services Committees. He is Chairman of Development Control and a member of the Community Health Council, Governor of Forest Gate and Firdale Schools, and also the Vice Chairman of Corby Citizens Advice Bureau.

CLLR. LEN POOLE, BEM, JP, a Past President of the Society, represents the Northern Division of NSCA; he is Deputy Chairman of the Noise Committee and a Past Chairman of the Society's Council. Cllr. Poole has been Chairman of the Northern Division and a member of Council since re-organisation of local government, Chairman of the Environmental Health Committee, Middlesbrough Borough Council (since re-organisation) and Member of South Tees Health Authority (representing Middlesbrough Council), Justice of the Peace since 1965 and Deputy Chairman of Domestic and Adult Courts. Cllr. Poole was responsible for persuading his Council to complete its Domestic Smoke Control programme by the target date of 1979 (in spite of financial cutbacks). He is a Member of the Boroughs of Cleveland Pollution Control Group (Industrial Pollution), also an Executive Member and President of the Federation of Burial and Cremation Authorities, Vice-Chairman of 'Tidy North' Regional Committee and National Executive Member of Keep Britain Tidy Group and President of Middlesbrough Mentally Handicapped Society.

NICHOLAS M. ROSS, MBIM, MInstM, represents the Low Temperature Coal Distillers' Association. Having joined the National Coal Board in 1967, he served in Marketing Departments in Yorkshire and the Midlands. In 1978 he joined National Smokeless Fuels Ltd. and in 1981 took up an appointment with the NCB/SFAS as Sales Manager for Merseyside, West Cheshire, West Lancashire and the Isle of Man. In 1985 he was seconded to NCB Industrial Branch and in May of that year joined the Coalite Group plc as General Sales Manager "Coalite" and a Director of Coalite Fuels and Chemicals. In September 1989 he was appointed Commercial Director of Coalite Smokeless Fuels. Mr. Ross served as Secretary of the North Midlands Coal Industry Society from 1970 - 1979 and took the Chair in 1980. He is Chairman of the SSFF Publicity Committee, sits on the SSFF National Executive Committee and is the LTCDAs representative on SFAS Regional Committees in Yorkshire, North West and London and is a co-opted member of the East Midlands Division of the NSCA.

PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and South East Division, NSCA, and serves on the Society's Technical Committee. He was Chairman of the Council of the Society 1978/79. His Books include 'Air Pollution' 1968

(Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); 'Cloud Investigation by Satellite' (Ellis Horwood 1986): four colour filmstrips 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972, 'Spacious Skies' (with Arjen Verkaik) 1989 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5 and was President of the Royal Meteorological Society 1986-88. He was appointed as Lecturer (Meteorology) Imperial College, 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmos. Env.). He was a member of the Clean Air Council from 1968 until its demise and Chairman of CAC's Technical Committee from its inception. He was an Alderman, London B. of Merton (1971/78) and on the Metropolitan Water Board 1971/74. Professor Scorer was awarded the title Emeritus Professor in 1982 and is now a Senior Research Fellow in Mathematics and Environmental Technology at Imperial College.

CLLR. TERRY SHORT is Chairman of the West Midlands Division and a member of the Parliamentary and Local Government Committee. He has been a member of Bedworth Urban District and later Nuneaton and Bedworth Borough Councils since 1971 and since that time has been involved in both the Warwickshire Environmental Council and the Midlands Association of Local Authorities Joint Advisory Council for Noise and Pollution Control; he is currently Vice Chairman of the latter. Cllr. Short is interested in all aspects of the environment, both urban and rural.

JACK B. SIMPSON has been a member of North West Divisional Council NSCA since 1980. A Founder Member and Honorary Technical Officer of the Manchester Area Pollution Advisory Council (formerly the Manchester Area Council for Clean Air and Noise Control) and Chairman of its Technical Advisory Committee since 1984. Trained, and qualified in 1961, whilst employed by Lancaster City Council before joining Failsworth UDC in 1963 and becoming the Chief Public Health Inspector in 1972. On amalgamation into Oldham MBC in 1974 became Principal EHO (Pollution and Noise Control) and in 1984 was promoted to Divisional EHO (Specialists).

CLLR. LIS (MRS. B. J.) SOLKHON represents the London and South East Division, NSCA, and is a member of the Society's Conference and Promotions Committee. On being elected to Brighton Borough Council in 1979 Lis Solkhon chose Environmental

Health as her main Council Committee. She became Chairman in 1982 and has attended NSCA Conferences as a Council delegate each year since, becoming a member of the London & South East Division in 1988. She is a writer and broadcaster and lectures on media skills, training personnel for Local Authorities and commercial companies. She is a member of Sussex University Council, a school Governor, and heavily involved with music and the arts. She is a member of the Institute of Journalists and of the Institute of Public Relations.

CLLR. HARRY I. THOMAS is currently Vice Chairman of the South and Mid Wales Division of NSCA and is a Member of the Conference and Promotions Committee. He was first elected as Councillor in May 1967. Being a past Mayor of Lliw Valley Borough Council, Councillor Thomas is currently the Chairman of the Council's Amenities Committee, which is responsible for all matters relating to environmental health and leisure activities. Councillor Thomas also represents his Council on the West Glamorgan Joint Environmental Pollution Committee (being Vice Chairman and Chairman Elect), and is also Chairman of the Gower Local Consumer Advisory Committee of the Welsh Water Authority. He is a member of the West Wales Advisory Committee of the Sports Council of Wales.

TREVOR TOWNSEND, MIEH, FRSH, represents the West Midlands Division and is a member of the Noise Committee. He is currently Senior Assistant Director of Environmental Health and Consumer Services with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, mainly specialising in environmental pollution. He is the past Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control and is currently a lecturer and examiner for both the Environmental Health Officers Examination Board and the Royal Society of Health's Diploma in Air Pollution Control.

JOHN T. WADE, MSc, MIOA, MIEH represents the London and South East Division. He qualified as an Environmental Health Officer in 1977 and has Master of Science degrees in Environmental Pollution Science and Environmental Acoustics. He specialised in noise and air pollution matters during his last 4 years in local government and was one of the first people to use diffusion tubes to monitor environmental NO₂ concentrations in London. In 1987, he joined Aspinwall and Company Limited (environmental consultants) and currently is the Company's Manager of the Regional Office, London and the South-East, and technically heads a small but expanding acoustics and occupational health group. He is a member of the Society's Noise Committee and Secretary of the London Branch of the Institute of Acoustics and has

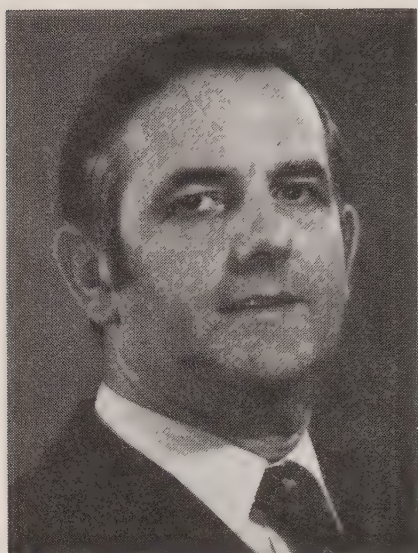
lectured to various professional and student groups on noise and air pollution related problems and presented papers on hand-transmitted vibration. He holds membership of the Acoustical Society of America and is an Associate Member of the Institute of Noise Control Engineering.

ROBERT G. WEBB represents the Institution of Environmental Health Officers. He is a Fellow of the Institution of Environmental Health Officers and is the Deputy Chief Environmental Health Officer for Cheltenham Borough Council. He was formerly Principal of the Environmental Protection Division and was closely involved in pollution problems.

ROBERT F. WEST, MIOA, represents the NSCA South and Mid Wales Division. He qualified in 1968 with a Diploma in Public Health from the University of Wales, Institute of Science and Technology. He is currently employed as a Divisional Environmental Health Officer responsible for Pollution Control with Cardiff City Council. He is a member of the Society's Technical Committee and is also involved with other regional committees and working groups dealing with waste management, radiation and pollution related topics.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division. He was elected to the Newcastle-upon-Tyne City Council in May 1963. He is Chairman of the AMA Environmental Health and Consumer Affairs Committee and Chairman of LACOTS. Cllr. Yellowley was Vice Chairman of the Northern Division, NSCA, in 1976, Chairman, Northern Division in 1977 and Vice Chairman again 1978 to date. He currently serves on the Finance and Administration Committee.

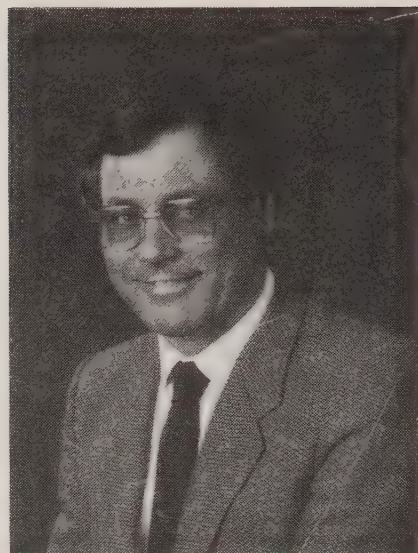
BERNARD H. YOUNG, FIEH, represents the South West Division and is a long standing member of the Society. He served as a Health Inspector with Willesden Borough Council and the Royal Borough of Kensington, and after moving to Andover RDC was appointed Chief Public Health Inspector to the Council in 1959. He moved to a similar position with Newton Abbot Rural District Council in 1970 and on re-organisation of Local Government he was appointed as Chief Environmental Health Officer in Teignbridge District Council which post he currently holds. He is particularly concerned with the pollution of rivers and its effects on the cultivation of shellfish, particularly oysters produced in polluted waters and much research has been carried out by the Health Department in this field. He has also been actively involved in the investigation and control of atmospheric pollution caused by the handling of dirty cargoes in docks.



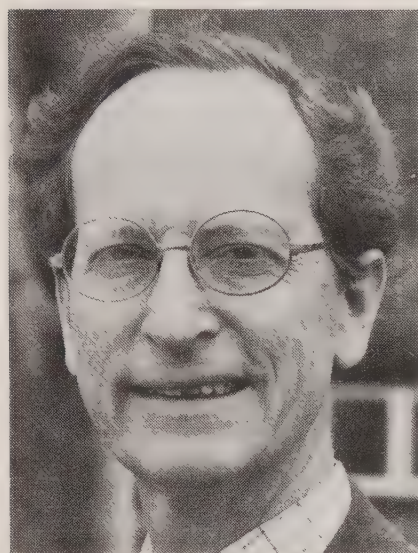
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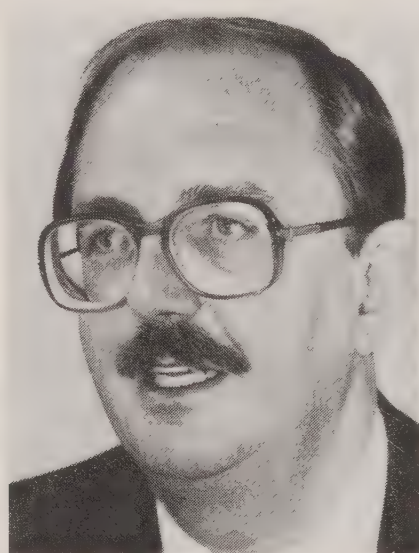
Lord Nathan



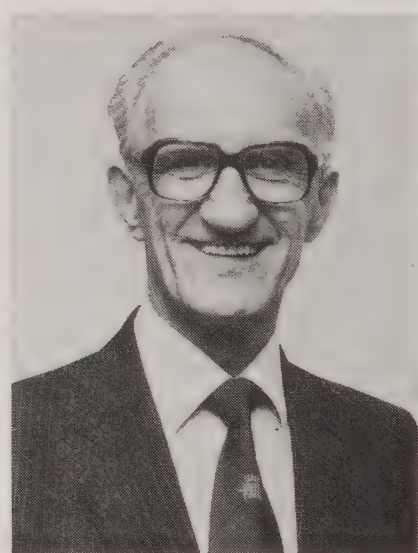
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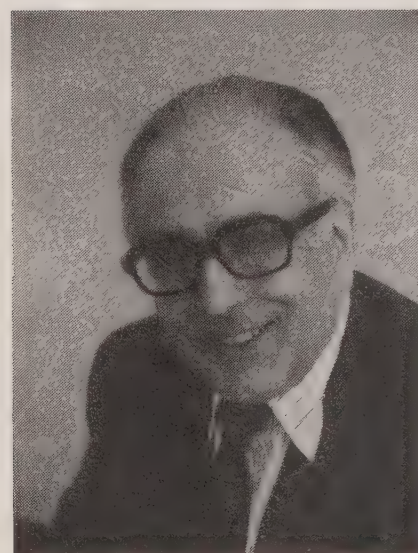
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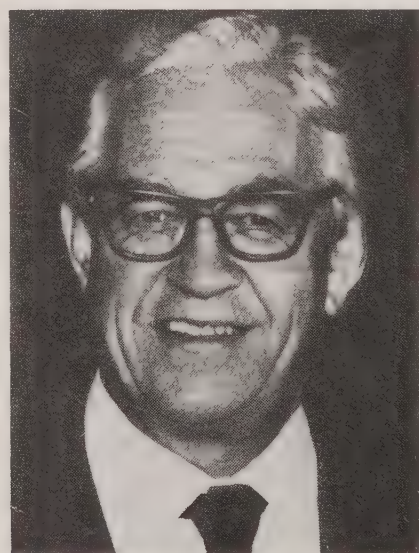
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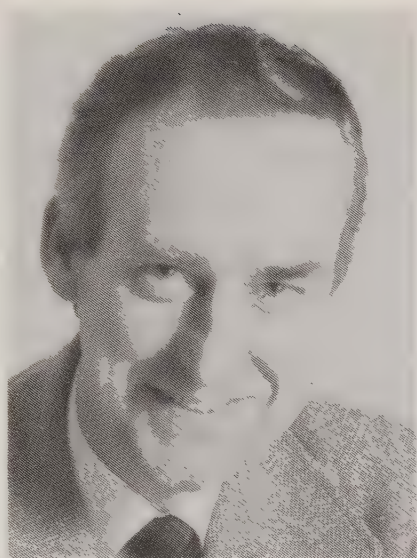
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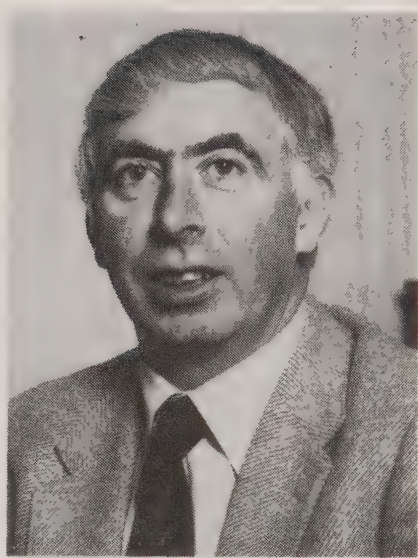
M.R. Seligman



D.G.T. Williams



F.E. Shephard



B.F. Snow



A.J. Rees



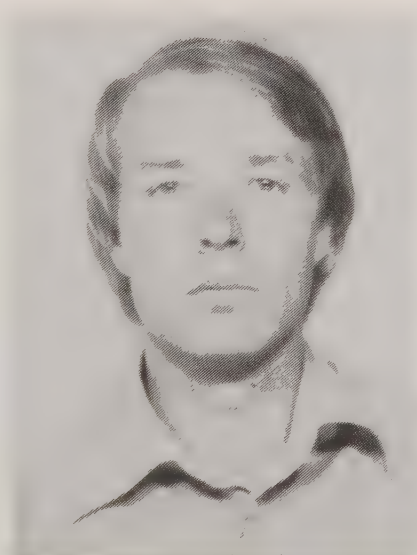
Mrs E.J. Inglefield



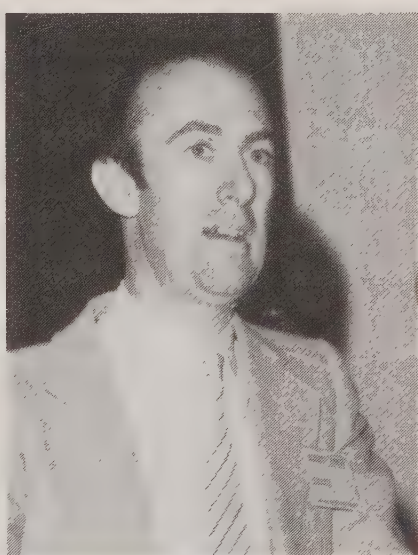
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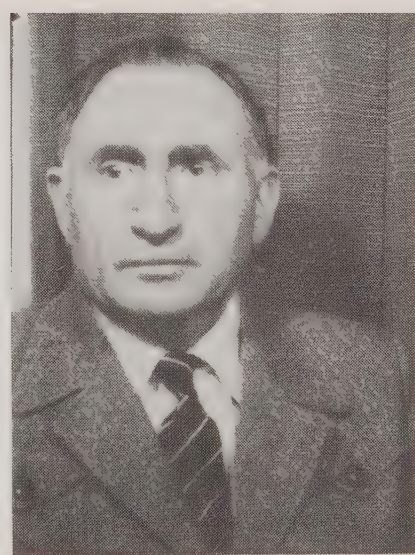
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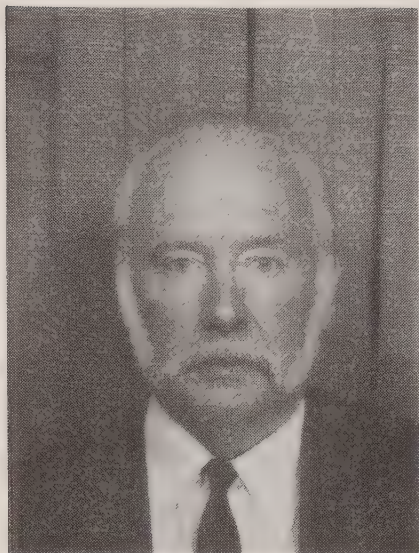
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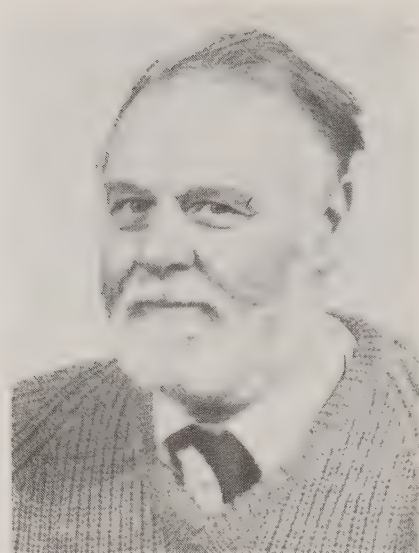
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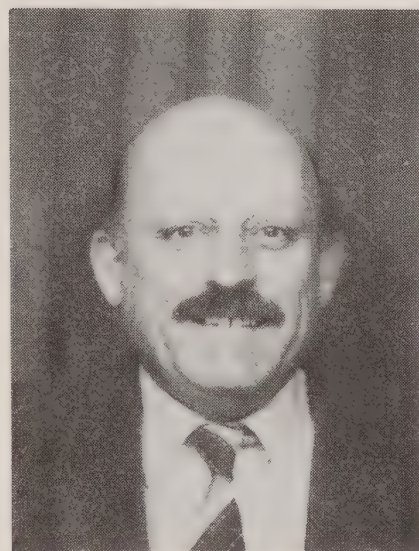
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J. Boddy



J. Makin Bramley



J. Carr



R.S. Chamberlain



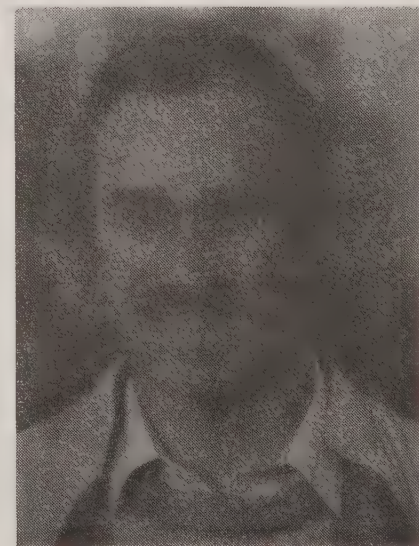
Ms F. Church



J.C. Clancey



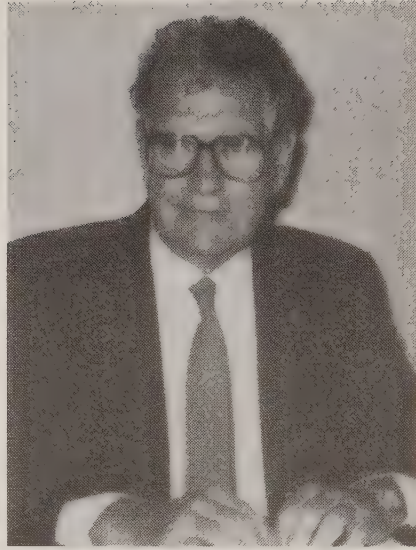
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D.R. Cope



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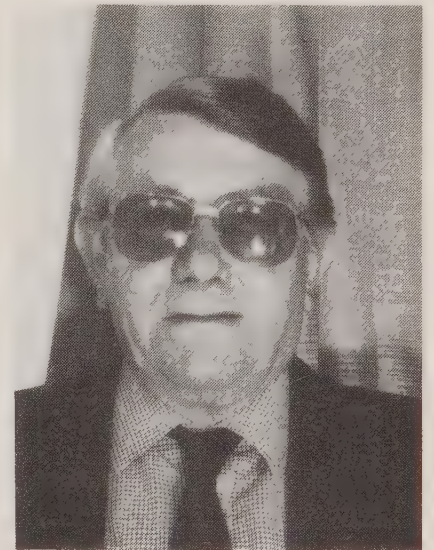
K.S. Dunn



K.R. Enderby



J.R.P. Evans



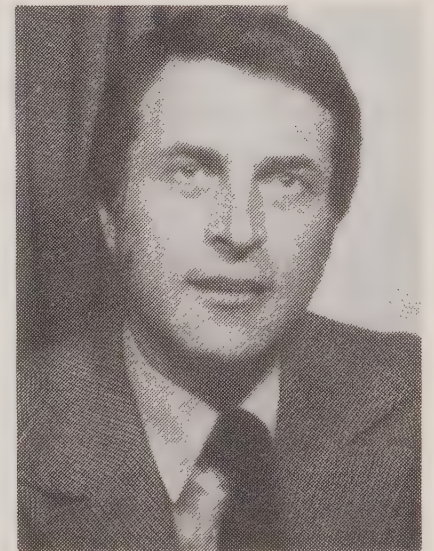
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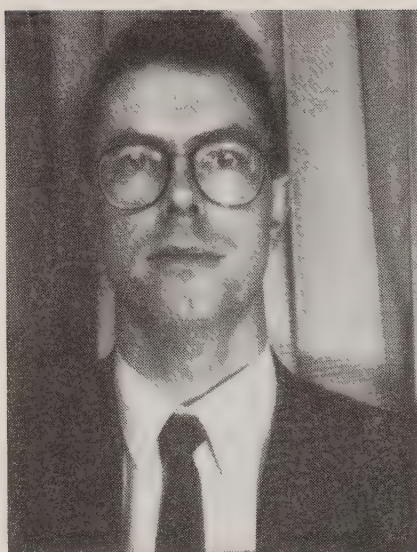
J.S. Harrison



T. Jones



T. Jones



P. Legge



I.R. Liversidge



I. Mackay



G. McCurdy



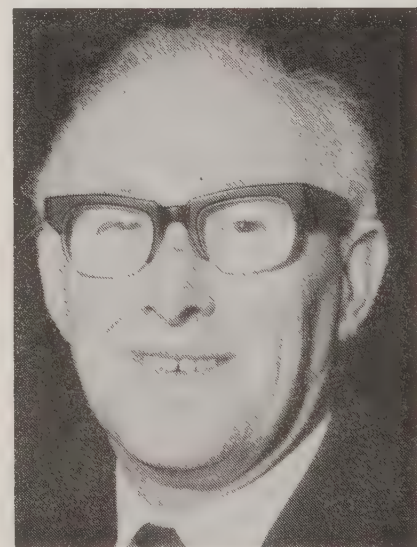
G.M. McDade



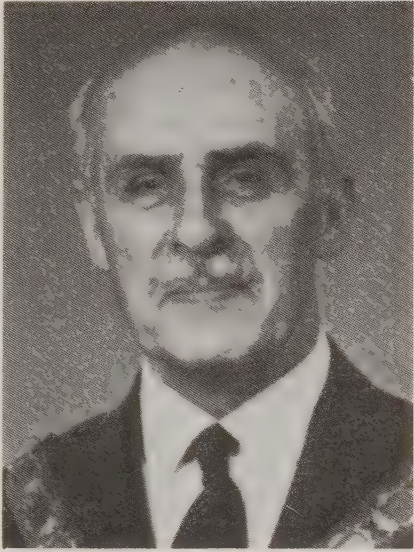
Mrs E.M.L. Naylor



H. Nowell



R.F. Ogilvie



L. Poole



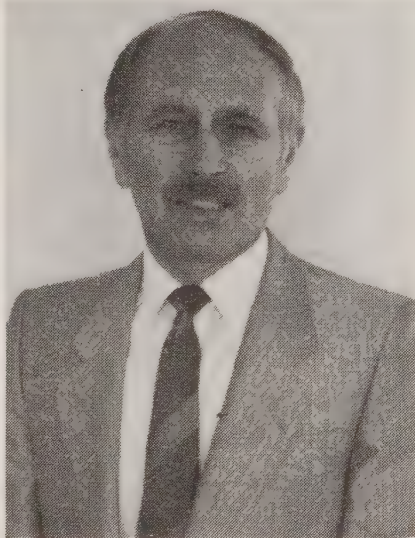
N.M. Ross



R.S. Scorer



T. Short



J.B. Simpson



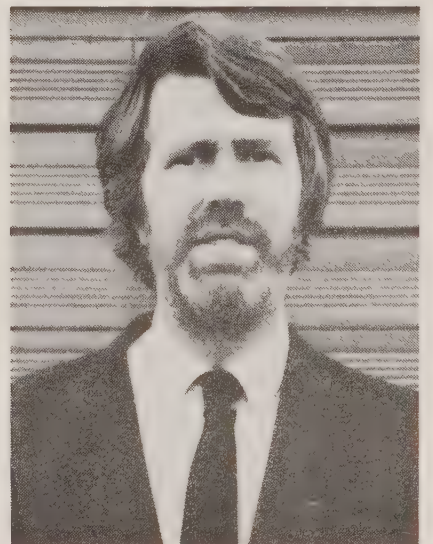
Mrs B.J. Solkhon



H.I. Thomas



T. Townsend



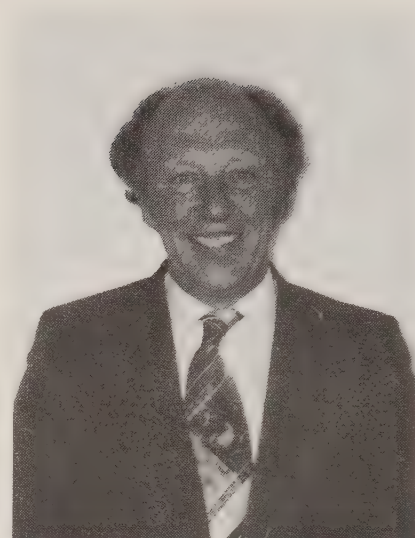
J.T. Wade



R.G. Webb



T.W. Yellowley



B.H. Young

SECTION 4

Divisional Membership

DIVISION ONE

SCOTTISH DIVISION

Hon. Secretary: C. Morgan
Environmental Health Department, City of
Glasgow,
23 Montrose Street, Glasgow G1 1RN
Telephone: 041 227 4341

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Glasgow, City of

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Hamilton District Council
Monklands District Council
Motherwell District Council
Renfrew District Council

CORPORATE MEMBERS

British Steel Corporation (Scottish
Division)
Soundlab (Scotland) Ltd

INDIVIDUAL MEMBERS

Blair, J.A.
Brown, Miss Y.
Cannavan, Mrs. M.
Clark, B.
Foreman, J.*
Harrop, Dr D.O.
Kelly, B.
MacPherson, I.
McGhie, J.R.*
Nicolson, R.S.
Smart, J.
Watson, D.M.*

DIVISION TWO

NORTHERN IRELAND

DIVISION

Chairman: Mrs D. Dunlop
Hon. Secretary: G. McCurdy
Senior Environmental Health Officer,
Carrickfergus Borough Council, Town
Hall, Carrickfergus, Co. Antrim BT38
7DL
Telephone: 0960 351604

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim Borough Council
Ards Borough Council
Armagh Borough Council
Ballymena Borough Council
Belfast City Council
Carrickfergus Borough Council
Castlereagh Borough Council
Coleraine Borough Council
Cookstown District Council
Craigavon Borough Council
Derry City Council
Larne Borough Council
Lisburn Borough Council
Newry & Mourne District Council
Newtonabbey Borough Council

CORPORATE MEMBERS

Coal Advisory Service
Eastern Health & Social Services Board

INDIVIDUAL MEMBERS

Dunlop, Mrs D.
Hanna, B.P.
Hetherington, O.

DIVISION THREE

NORTHERN DIVISION

Cleveland, Cumbria (in part), Durham,
Northumberland, Tyne & Wear

Chairman: Cllr. L. Poole

Hon. Secretary: K. Atkinson

30 Loraine Crescent, Darlington DL1 5TS

Telephone: 0325 352692

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal

British Gas

Central Electricity Generating Board
(North Eastern Region)

HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Allerdale District Council

Barrow-in-Furness Borough Council

Blyth Valley Borough Council

Carlisle, City of

Castle Morpeth Borough Council

Chester-le-Street District Council

Darlington Borough Council

Derwentside District Council

Durham, City of

Easington District Council

Gateshead Metropolitan Borough Council

Hartlepool Borough Council

Langbaugh Borough Council

Middlesbrough Borough Council

Newcastle upon Tyne, City of

North Tyneside Metropolitan Borough
Council

Sedgefield District Council

South Tyneside Metropolitan Borough
Council

Stockton-on-Tees Borough Council

Sunderland Metropolitan Borough Council

Teesdale District Council

Wansbeck District Council

Wear Valley District Council

CORPORATE MEMBERS

AAF Ltd

British Steel Corporation (Teesside
Division)

Coal Merchants Federation of Great
Britain (Northern Region)

INDIVIDUAL MEMBERS

Bird, D.

Calvert, Mrs. M.R.

Cayton, S.*

Cresswell, C. (Hon. Member)

Emerson, R.*

Isaac, Professor P.C.G.*

Lander, R.W.

Mair, L.*

Rutherford, I.J.

DIVISION FOUR

NORTH WEST

Cheshire, Clwyd, Cumbria (in part),
Greater Manchester, Gwynedd, Lancashire,
Merseyside

Chairman: Cllr. R. Williamson

Hon. Secretary: K.G. Kaufman

Environmental Health Department,
Tameside MBC, Council

Offices, Wellington Road, Ashton-under-
Lyne OL6 6DL

Telephone: 061 330 8355

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal

British Gas

Central Electricity Generating Board
(North West Region)

Cheshire County Council

HM Inspectorate of Pollution

Shell UK Limited

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council

Blackpool Borough Council
 Bolton Metropolitan Borough Council
 Burnley Borough Council
 Bury Metropolitan Borough Council
 Chorley Borough Council
 Congleton Borough Council
 Delyn Borough Council
 Halton Borough Council
 Hyndburn, Borough of
 Isle of Man Government
 Knowsley, Metropolitan Borough of
 Liverpool, City of
 Macclesfield Borough Council
 Manchester, City of
 Oldham Metropolitan Borough Council
 Pendle Borough Council
 Ribble Valley Borough Council
 Rochdale Metropolitan Borough Council
 Rossendale Borough Council
 Salford, City of
 Sefton Metropolitan Borough Council
 South Ribble Borough Council
 St Helens Metropolitan Borough Council
 Stockport, Metropolitan Borough of
 Tameside Metropolitan Borough Council
 Trafford Metropolitan Borough Council
 Warrington Borough Council
 West Lancashire District Council
 Wigan Metropolitan Borough Council
 Wirral Metropolitan Borough Council

CORPORATE MEMBERS

Acid Rain Information Centre
 CMB Engineering
 Coal Merchants Federation of Great
 Britain (North West Region)
 Greater Manchester Scientific Services
 Greater Manchester Waste Disposal
 Authority
 Manchester Area Pollution Advisory
 Council
 University of Manchester, The Institute
 of Science & Technology- Pollution
 Research Unit
 Woolton Society, The

INDIVIDUAL MEMBERS

Allen, J.K.
 Butlin, J.
 Cain, J.
 Cass, H.V.*
 Christian, F.V.*
 Evans, T.
 Fallows, W.B.*
 Ford, N.J.
 Foskett, E.W.
 Franklin, N.J.
 Fraser, I.M.
 Gee, J.
 Gee, Mrs. J.
 Hayhurst, R.J.L.
 Hayward, P.G.
 Heald, I.A.
 Hendy, Dr. B.
 Hollingdale, R.A.W.*
 Hughes, T.*
 Kenyon, H.
 Lowe, T.H.
 Mather, Sir. W.*
 McGauley, H.J.
 Miles, D.P.
 Muir, A.
 Parsonage, H.*
 Pemberton, R.
 Phillips, S.D.
 Pollitt, W.E.*
 Shenton, J.
 Vanstone, H.B.*
 Whittle, R.
 Winder, F.*
 Yates, C.J.

DIVISION FIVE YORKSHIRE AND HUMBERSIDE

Humberside, North Yorkshire, South
 Yorkshire, West Yorkshire
Chairman: Cllr. J.M. Bramley
Hon. Secretary: K. Kelly
 Department of Environmental Health and
 Trading Standards, Rotherham MBC,

Thorn Bank, Moorgate, Rotherham, South
Yorkshire S60 2BU
Telephone: 0709 373731 ext 3102

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(North eastern Region)
HM Inspectorate of Pollution
Leeds, City of
Sheffield, City of

LOCAL AUTHORITY MEMBERS

Barnsley Metropolitan Borough Council
Calderdale Borough Council
Cleethorpes District Council
Doncaster Metropolitan Borough Council
Great Grimsby Borough Council
Harrogate Borough Council
Kingston upon Hull, City of
Kirklees Metropolitan Borough Council
Richmondshire District Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
Wakefield, City of
York, City of

CORPORATE MEMBERS

Atkins & Downie
British Steel Corporation
Union Carbide UK Limited
Yorkshire & Humberside Pollution
Advisory Council

INDIVIDUAL MEMBERS

Bird, D.
Clarke, Dr A.G.
Deegan, L.E.A.
Gittins, M.J.
Green, G.H.

Jefferies, D.A.
Lane, Dr J.J.
Perry, A.W.*
Saword, A.C.*
Scott, J.A.
Store, N.J.
Tomlinson, E.S.
Twyford, W.B. (Hon. Member)

DIVISION SIX WEST MIDLANDS

Hereford & Worcester, Shropshire,
Staffordshire, Warwickshire, West
Midlands

Chairman: Cllr. T.E. Short
Hon. Secretary: L.F. Medlycott
68 Hatherton Road, Cannock,
Staffordshire WS11 1HQ
Telephone: 0543 55265

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
British Coal
British Gas
HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Coventry, City of
Dudley Metropolitan Borough Council
Newcastle-under-Lyme Borough Council
North Warwickshire Borough Council
Nuneaton District Council
Redditch District Council
Rugby Borough Council
Sandwell Metropolitan Borough Council
South Staffordshire District Council
Stoke-on-Trent City Council
Walsall Metropolitan Borough Council
Warwick District Council
Wolverhampton Borough Council
Worcester, City of
Wrekin District Council

Wyre Forest District Council

CORPORATE MEMBERS

Lodge-Cottrell Limited
School of Construction Studies -
Wolverhampton Polytechnic

INDIVIDUAL MEMBERS

Armstrong, G.D.
Barker, I.
Batho, A.
Cross, R.A.
Hinchliff, D.
Hulme, B.
Key, M.J.
McGuire, J.P.
Medlycott, L.F.
Norton, R.
O'Hara, J.P.
Owen, B.J.
Pocock, Dr R.L.
Reynolds, F.
Simmons, Dr S.A.
Stamper, P.J.
Stuffins, L.N.
Sulway, Mrs K.J.
Taylor, Mrs & Mrs C.B.*

DIVISIONS SEVEN AND EIGHT

EAST MIDLANDS

Cambridgeshire, Derbyshire,
Leicestershire,
Lincolnshire, Northamptonshire,
Nottinghamshire

EASTERN

Essex, Norfolk, Suffolk
Chairman: K.R. Enderby
Hon. Secretary: D. Romaine
Housing and Environmental Services
Department, Derby City Council, The
Council House, Corporation Street, Derby
DE1 2FD
Telephone: 0332 255228

MEMBERSHIP LIST - EAST MIDLANDS DIVISION

SUSTAINING MEMBERS

British Coal
British Gas
Central Electricity Generating Board
(Midlands Region)
Coalite Group plc
HM Inspectorate of Pollution
Incinerator Company Limited, The
Rolls-Royce Limited

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Bolsover District Council
Boston Borough Council
Cambridge District Council
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Derbyshire Dales District Council
Erewash Borough Council
Fenland District Council
Gedling District Council
Harborough District Council
High Peak Borough Council
Hinckley & Bosworth Borough Council
Huntingdon District Council
Leicester, City of
Lincoln, City of
Mansfield District Council
Newark & Sherwood District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Nottingham, City of
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council

Wellingborough Borough Council

CORPORATE MEMBERS

British Steel Corporation
Combustion Developments Ltd
Derbyshire College of Higher Education
Leicester Polytechnic
Low Temperature Coal Distillers
Association
Solid Smokeless Fuels Federation

INDIVIDUAL MEMBERS

Brown, A.H.
Clayton, H.M.*
Davis, D.*
Hall, J.E.*
Harber, Ms. C.
Haynes, F.
Hunt, Dr J.C.R.
Inglefield, Mrs E.J.
Kenyon-Goldthorpe, M.
Raven, E.F.(Hon. Member)
Richards, Dr J.M.
Rigby, J.*
Riley, Dr R.V.*
Romaine, D.R.
Stringer, P.G.
Warren, R.S.
Weldon, Miss G.M.*
Wilcock, T.G.

MEMBERSHIP LIST - EASTERN DIVISION

SUSTAINING MEMBERS
HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Basildon District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council

Norwich, City of
St Edmundsbury Borough Council
Thurrock Borough Council

CORPORATE MEMBERS
Ford Motor Company Limited
Purified Air Limited

INDIVIDUAL MEMBERS

Baker, P.
Ball, D.J.
Bonfield, C.C.
Dobson, P.F.
Fisher, J.G.
Goodfellow, J.(Hon.Member)
Parsons, E.
Skeate, Mrs J.E.
Wade, J.T.
Waldron, Mr & Mrs R.A.*

DIVISIONS NINE AND TEN LONDON AND SOUTH EAST

East Sussex, Greater London,
Hertfordshire, Kent, Surrey, WestSussex
CENTRAL SOUTHERN

Bedfordshire, Berkshire,
Buckinghamshire, Hampshire, Isle
of Wight, Oxfordshire

Chairman: Mrs P. Naylor
Hon. Secretary: J.J. Beagle
19 Oxgate Gardens, Brent, London NW2
6EA
Telephone: 01 452 0203

MEMBERSHIP LIST - LONDON & SOUTH EAST DIVISION

SUSTAINING MEMBERS
BP Oil Limited
British Coal
British Gas
Central Electricity Generating Board
Esso Petroleum Company Limited
HM Inspectorate of Pollution

Shell UK Ltd
Shell UK Oil Limited

LOCAL AUTHORITY MEMBERS

Adur District Council
Barking & Dagenham, London Borough of
Barnet, London Borough of
Bexley, London Borough of
Brent, London Borough of
Brighton Borough Council
Bromley, London Borough of
Broxbourne Borough Council
Crawley Borough Council
Croydon, London Borough of
Dacorum Borough Council
Dartford Borough Council
Dover District Council
Ealing, London Borough of
Eastbourne Borough Council
Elmbridge Borough Council
Enfield, London Borough of
Epsom & Ewell District Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith & Fulham, London Borough of
Harrow, London Borough of
Havering, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, Royal Borough of
Kingston upon Thames, Royal Borough of
Lewes District Council
Lewisham, London Borough of
London, City of
Merton, London Borough of
Richmond upon Thames, London Borough of
Rochester upon Medway Borough Council
Rother District Council
Southwark, London Borough of
Surrey Heath Borough Council
Sutton, London Borough of
Tower Hamlets, London Borough of

Watford Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Association of Industrial Filter & Separator Manufacturers
Bacons School
Blue Circle Industries
British Steel Corporation
Canons Park Residents Association
Guinness, Son & Co, Arthur
Imperial Chemical Industries plc
Institute of Petroleum, The
Institution of Environmental Health Officers, The
Institution of Gas Engineers, The
Johnson Matthey Chemicals Limited
LSS-Rendel Scientific Services Ltd
North East Surrey College of Technology
Retail Solutions
Sabre Gas Detection Ltd
St Thomas Hospital Medical School-Department of Community Medicine
Sunbury Hill Clinic Ltd
Tace plc
Tottenham College of Technology
UK Centre for Economic & Environmental Development, The

INDIVIDUAL MEMBERS

Ades, R.
Allen, J.
Baverstock, S.
Beaman, A.L.
Bean, G.
Beaumont, M.
Beckwith, P.
Berrisford, P.
Bevington, C.F.P.
Blake, P.
Boddy, J.H.*
Boehmer-Christiansen, Dr S.A.
Bond, Professor G.C.

80 - Section 4

Bourke, Miss. I.
Butler, J.W.*
Carroll, A.
Chambers, Dr D.
Churchill, J.
Clancey, J.*
Clark, Dr A.
Clayton. Mrs S.
Colville, Lt.Commander R.F.*
Conrad, A.
Craxford, Dr S.R.*
Daly, C.R.
East, R.G.
Fitzgerald, N.
Fox, A.H.
Frankland, R.*
Gandy, Miss R.L.*
Gardiner, Dr. R.L.
Garland, G.E.*
Garland, P.R.
Gascoigne, Mrs. J.L.
Giblin, H.*
Goldsmith, A.
Gordon, Ms. A.
Grant, P.M.
Green, Mrs S.M.
Greenhead, S.*
Guerrini, R.
Hamilton, R.
Hubbard, B.
Hunt, J.
Iddison, T.H.*
James, B.W.
Johnson, Dr C.A.
Jones, T.H.
Kayes, Dr P.J.
Kingsley, Mrs. P.
Kitchener Earl*
Lees, B.*
Logan, E.A.
Lucas, Miss P.
Marchant, K.
Marr, M.
McIntyre, Dr A.E.
Meades, G.

Melville, J.
Menuhin, Yehudi
Monro, Dr. Jean
Page, W.D.
Perriman, R.J.
Reed, L.E.
Richardson, R.C.*
Rodriguez, Mrs J.
Scannell, K.
Scorer, Professor R.S.*
Shillito, D.
Skea, Dr J.
Smith, Mrs P.
Southwood, R.M.
Sullivan, Mrs C.A.
Thomas, A.O.
Turner, D.W.
Turner, Dr W.C.*
Valentin, Dr F.H.
Vine Mr & Mrs G.M.*
Walder, A.N.
Wallin, S.C.
Wilkins, Ms. N.
Willcox, Mrs M.C.T.R.
Wright, D.

MEMBERSHIP LIST - CENTRAL SOUTHERN DIVISION

SUSTAINING MEMBERS
British Gas
HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS
Cherwell District Council
Fareham Borough Council
Gosport Borough Council
Luton Borough Council
Mid Bedfordshire District Council
Oxford, City of
Portsmouth, City of
Slough Borough Council
Southampton, City of
South Bedfordshire District Council

South Oxfordshire District Council
Wokingham District Council
Wycombe District Council

CORPORATE MEMBERS

Calor Gas Ltd
Ensertec Systems (International) Ltd
Honeywell Control Systems Ltd

INDIVIDUAL MEMBERS

Bairds, J.M.
Bartlam, J.N.*
Billington, N.J.
Brown, Dr R.S.
Brown, T.*
Buck, Dr. G.W.
Colehan, J.E.*
Elsom, D.M.
Fleming, B.
Fuller, H.I.*
Hair, D.
Jones, Dr P.W.
Londy, C.
Mason, C.H.J.
Mayall, A.
Miessler, Mrs. E.*
Mundy, K.
Nevard, L.*
Pettit, K.
Phillips, H.
Robson, A.
Scotson, D.A.*
Tagg, J.R.*
Turner, M.
Verdin, A.
Wythers, J.R.G.*

DIVISION ELEVEN SOUTH WEST

Avon, Cornwall, Devon, Dorset,
Gloucestershire, Somerset, Wiltshire
Chairman: H. Dawson
Hon. Secretary: K. Horton
Environmental Health Department,

Woodspring DC, Town Hall, Weston-
super-Mare, Avon BS23 1UJ
Telephone: 0934 634509

MEMBERSHIP LIST

SUSTAINING MEMBERS

Avon County Council
British Coal
British Gas
Central Electricity Generating Board
(South West Region)
HM Inspectorate of Pollution

LOCAL AUTHORITY MEMBERS

Bath, City of
Bournemouth Borough Council
Bristol, City of
Cheltenham Borough Council
Cotswold District Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Mendip District Council
North Wiltshire District Council
Northavon District Council
Plymouth, City of
Poole Borough Council
South Hams District Council
Stroud District Council
Teignbridge District Council
Thamesdown Borough Council
Torbay Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Cornwall Noise Advisory Committee
Cross Manufacturing Ltd
Enviro Technology

INDIVIDUAL MEMBERS

Bailey, B.J.
Baxter, T.*

Birkin, M.
Briggs, E.B.
Clarke, A.J.*
Clarke, B
Cook, M.
Dickerson, D.S.
Edwick, B.H.
Garrigar, O.L.
Hannabuss, G.H.*
Jarman, R.T.
Parker, Professor R.A.
Price, B.
Redston, R.V.*
Robertson, D.S.
Thomas, R.V.
Upton, B.C.*
Vick, J.L.
Wade, Dr R.J.

DIVISION TWELVE SOUTH AND MID WALES

Wales except Clwyd and Gwynedd

Chairman: Cllr. H. Thomas

Hon. Secretary: T. Jones

28 Maes-y-celyn, Griffithstown,

Pontypool, Gwent

Telephone: 06338 38444

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Coal

British Gas

HM Inspectorate of Pollution

Mid Glamorgan County Council

LOCAL AUTHORITY MEMBERS

Blaenau Gwent Borough Council

Cardiff, City of

Cynon Valley Borough Council

Islwyn Borough Council

Llanelli Borough Council

Lliw Valley Borough Council

Merthyr Tydfil Borough Council

Neath Borough Council
Newport Borough Council
Port Talbot Borough Council
Preseli Pembrokeshire District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely Borough Council
Torfaen Borough Council
Vale of Glamorgan Borough Council
West Glamorgan County Council

CORPORATE MEMBERS

British Steel Corporation

South Glamorgan Institute of Higher
Education

Swansea Port Health Authority

INDIVIDUAL MEMBERS

Dearden, J.*

Evans, J.

Jones, L.G.

Parry, J.W.

Thayer, J.M.

SECTION 5

Smoke Control Areas

SMOKE CONTROL AREAS

Programmes and Progress

Section 11 of the Clean Air Act 1956 allows a local authority to make a smoke control order. When this is in operation it is an offence for an occupier of premises to allow smoke emission from a chimney unless the fuel is authorised or the fireplace is exempt (full list of authorised fuels and exempted fireplaces in NSCA Pollution Handbook).

The following lists contain the names of the local authority areas implementing smoke control areas as of 1st April 1974, with some additional areas - figures have been compiled directly from information submitted by local authorities. Due to the financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures are for the position on 31st March 1989 and some authorities' figures will have changed since that date. The fourth column for each local authority shows the percentage of the total Council area covered by smoke control. It should be remembered, however, that some predominantly rural authorities will show a low figure in this column even though the proportion of premises covered may be high.

Many of the new smoke control orders being made in urban areas are to bring them into line with EC directive 80/779/EEC - Directive on air quality limit values and guide values for SO₂ and suspended particulates - brought into force 1982, with some heavily polluted areas being given exemption up to 1993.

The British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.

GREATER LONDON

SOUTH EAST

Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.

SOUTH WEST

Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.

WALES

Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.

SCOTLAND

NORTHERN IRELAND

KEY

c. = approx;

comp = completed;

n/k = not known;

susp = programme suspended;

Clld = programme cancelled;

* = completeted programme

x = no return received, figures as for 31.3.87

		Target Date Comp	Final Acreage	Acreage (In Op) 31.3.89	% of total covered	Premises (In Op) 31.3.89
NORTHERN						
Alnwick DC (Northumberland)		-	-	4.7	<1%	76
Allerdale DC (Cumbria)	x	1993	8816	1413	0.4%	4348
Blyth Valley BC (Northumberland)	x	1992	17649	3058	22%	12978
Carlisle CC (Cumbria)		Susp	6092	898	0.3%	c.4200
Castle Morpeth BC (Northumberland)*		1986	2534	2534	2%	6285
Copeland BC (Cumbria)		-	-	-	-	1650
Darlington BC (Co. Durham)		1987	6469	6469	13.1%	35482
Derwentside DC (Cumbria)		-	-	834	1.3%	3978
Easington DC (Co. Durham)		1992	5984	1408	4%	5887
Gateshead MBC (Tyne & Wear)		1992	35372	20616	-	71483
Hartlepool BC (Cleveland)	x	1982	9073	9073	39%	34506
Langbaurgh-on-Tees BC (Cleveland)		1993	n/k	12063	20.3%	44478
Middlesbrough BC (Cleveland)	*	1979	12226	12226	92%	54100
Newcastle-upon-Tyne MBC (Tyne)	*	1978	34500	34500	100%	112100
North Tyneside MBC (Tyne & Wear)		1989	20801	20569	99%	72592
Sedgefield DC (Co. Durham)	x	n/k	n/k	c.1210	c.2%	c.5909
South Tyneside MBC (Tyne & Wear)		1990	16285	14524	90%	68002
Stockton-on-Tees BC (Cleveland)	x	1988	16225	15842	38%	58506
Sunderland MBC (Tyne & Wear)		1993	11315	9014	26.5%	40188

NORTH WESTERN

Blackburn BC (Lancs)	*	Comp	13047	13047	38%	48300
Bolton MBC (Gtr. Manchester)		1993	34527	31159	90%	98088
Burnley BC (Lancs)	*	1980	23700	23700	82%	42050
Bury MBC (Gtr. Manchester)		Susp	24505	18020	74%	52604
Chorley MBC (Lancs)	x	n/k	-	353	2.2%	3159
Crewe & Nantwich BC (Cheshire)		No return received				
Ellesmere Port BC (Cheshire)	*	1982	3897	-	21%	23114
Halton BC (Cheshire)	*	1980	17121	17121	90%	41300
Hyndburn BC (Lancs)	*	1980	16611	16611	92%	37976
Knowsley MBC (Merseyside)		Susp	n/k	6359	23%	51295
Lancaster CC (Lancs)		n/k	n/k	2402	5.7%	9478
Liverpool MDC (Merseyside)		1992	27819	24178	87%	192236
Macclesfield BC (Cheshire)		-	-	304	0.3%	2670
Manchester CC (Gtr Manchester)	*	1985	28723	28723	100%	213468
Oldham MBC (Gtr Manchester)		1990	21364	21361	61%	102788
Pendle DC (Lancs)		Comp	14964	14964	36%	29500
Preston BC (Lancs)	*	1985	8347	8347	26%	48675
Ribble Valley BC (Lancs)		-	n/k	2177	2%	848
Rochdale MBC (Gtr Manchester)		1989	30724	27512	70%	76394
Rossendale BC (Lancs)		1991	30000	23450	69%	23609

	Target Date Comp	Final Acreage	Acreage (In Op) 31.3.89	% of total covered	Premises (In Op) 31.3.89
St. Helens MBC (Merseyside)	1989	30162	30023	91%	75464
Salford City MBC (Gtr Manchester) *	1978	23942	23942	100%	90279
Sefton MBC (Merseyside)	n/k	14742	2587	5.7%	13463
South Ribble BC (Lancs)	2000	27454	7403	30%	21647
Stockport MBC (Gtr Manchester)	n/k	31147	24707	79%	103145
Tameside MBC (Gtr Manchester) *	1984	25500	25500	100%	100711
Trafford MBC (Gtr Manchester) *	1981	24781	24781	100%	102304
Vale Royal DC (Cheshire)	x -	-	6928	7%	10422
Warrington BC (Cheshire) *	1983	41350	41350	95%	68429
West Lancashire DC (Lancs)	Clld	n/k	71701	n/a	14236
Wigan MBC (Gtr Manchester)	n/k	49160	27794	57%	73255
Wirral MBC (Merseyside)	n/k	38622	22730	59%	96241

YORKSHIRE & HUMBERSIDE

Barnsley MBC (S.Yorks)	1994	c.37065	20900	26.7%	45517
Bradford MBC (W.Yorks)	-	91444	59838	56%	180106
Calderdale MBC (W.Yorks)	-	-	40630	45.2%	83000
Chester-le-Street DC (Durham)	x 1993	-	-	-	-
Craven DC (N.Yorks)	Comp	8498	8498	29%	8207
Derwentside DC (Co.Durham)	x n/k	66944	834	1.3%	3978
Doncaster MBC (S.Yorks)	1996	142600	37413	26.2%	72978
Glanford BC (Humberside)	x n/k	139346	15264	11%	5135
Harrogate BC (N.Yorks)	1993	8500	3643	1.1%	19880
Kingston-upon-Hull CC (Humberside)	1993	17599	9331	53%	65767
Kirklees MBC (W.Yorks)	1993	102401	37648	36.8%	119447
Leeds MBC (W.Yorks)	Susp	138441	75605	54.6%	223463
Rotherham MBC (S.Yorks)	1992	69880	27858	40%	56208
Ryedale DC (N.Yorks)	-	-	296	0.08%	2202
Selby DC (N.Yorks)	1993	12000	3581	2%	6390
Scunthorpe BC (Humberside) *	1981	8337	8337	100%	24170
Sheffield MBC (S.York)	Comp	63146	63146	100%	230000
Wakefield MDC (W.Yorks)	1996	82328	29820	36%	60673
York CC (N.Yorks)	1990	7273	6184	85%	33603

WEST MIDLANDS

Birmingham CC (W.Midlands)	* 1986	68251	68251	-	342492
Cannock Chase DC (Staffs)	Programme commencing 1989				
Coventry MBC (W.Midlands)	* 1984	23856	23856	100%	124000
Dudley MBC (W.Midlands)	1988	24202	24202	100%	132500
East Staffordshire DC (Staffs)	1992	4120	3420	3%	16189
Lichfield DC (Staffs)	1993	7497	6418	7.5%	14338

	Target Date Comp	Final Acreage	Acreage (In Op) 31.3.89	% of total covered	Premises (In Op) 31.3.89
Newcastle-under-Lyme BC (Staffs)	1993	n/k	6320	12%	31124
North Shropshire DC (Salop)	Susp	c.1310	512	0.3%	1750
North Warwickshire BC (Warwicks)	1993	12355	96369	14%	14376
Nuneaton & Bedworth BC (Warwicks)	1996	19585	9634	49%	23086
Rugby BC (Warwicks)	* 1979	7010	8112	9%	22535
Sandwell MBC (W.Midlands)	Susp	21150	6536	31%	34446
Shrewsbury & Atcham BC (Salop)	No return received				
Solihull MBC (W.Midlands)	1996	44495	10791	24%	47504
Staffordshire Moorlands DC (Staffs)	1992	7230	2181	1.5%	6043
South Staffordshire DC (Staffs)	Susp	15814	5186	5.1%	3066
Stoke-on-Trent CC (Staffs)	x 1989	22949	14185	62%	61993
Tamworth BC (Staffs)	Susp	7648	4830	63%	21850
Walsall MBC (W.Midlands)	1992	26266	19817	75.4%	77500
Warwick DC (Warwicks)	* 1983/4	6757	6757	10%	36002
Wolverhampton MBC (W.Midlands)	1992	17031	12886	75%	74289
Worcester CC	1992	8238	2727	70%	20344
Wrekin DC (Salop)	Susp	19311	9159	13%	19966
Wyre Forest DC (Hereford & Worcester)	-	-	639	1.3%	6641

EAST MIDLANDS

Amber Valley DC (Derbys)	1990	19300	3971	6%	8519
Ashfield DC (Notts)	1994	23936	16478	61%	28708
Bassetlaw DC (Notts)	1993	157496	11348	7.2%	23312
Blaby DC (Leics)	* 1987	3790	3790	29%	22243
Bolsover DC (Derbys)	1993	39876	6000	15%	7796
Broxtow DC (Notts)	x 1986	14868	14868	74%	37606
Chesterfield (Derbys)	* 1985	16264	16264	100%	39600
Corby DC (N'hants)	Susp	2162	2162	13%	-
Derby BC (Derby)	* 1985	19282	19282	100%	90233
Erewash BC (Derbys)	2002	7577	3865	14%	15751
Gedling BC (Notts)	1995	6573	5683	22%	30800
High Peak DC (Derbys)	* 1986	4114	4114	3%	14148
Leicester CC (Leics)	* 1975	17232	17232	100%	108878
Lincoln CC (Lincs)	* Comp	8828	8828	100%	41569
Mansfield DC (Notts)	1993	19007	15726	83%	38116
Newark & Sherwood DC (Notts)	1991	8237	5243	3.3%	8654
North East Derbyshire DC	x n/k	68485	20541	30%	27369
North Kesteven DC (Lincs)	Susp	-	299	0.1%	983
Northampton CC (N'hants)	x Susp	19928	19928	41%	20000
Nottingham CC (Notts)	1991	18365	14700	80%	71419
Oadby & Wigston BC (Leics)	Susp	n/a	145	5.9%	903

	Target Date Comp	Final Acreage	Acreage (In Op) 31.3.89	% of total covered	Premises (In Op) 31.3.89
Rushcliffe BC (Notts)	* 1983	3229	3229	3%	13053
South Derbyshire DC (Derbys)	n/k	n/k	1716	2%	4253
South Kesteven DC (Lincs)	n/k	n/k	3706	1.6%	13754

LONDON BOROUGHES

Barking & Dagenham	* 1985	8886	8886	100%	70118
Barnet	No return received				
Bexley	* 1976	15847	15847	100%	89886
Brent	* 1975	10934	10934	100%	108418
Bromley	* 1979	29600	29600	79%	c.137000
Camden	* 1968	5365	5365	100%	88214
City of London	* 1955	679	679	100%	17360
Croydon	Susp	21395	13164	62%	c.106000
Ealing	* 1972	13707	13707	100%	126370
Enfield	* 1977	20061	20061	100%	89187
Greenwich	* 1972	11297	11297	100%	101332
Hackney	* 1967	4814	4814	100%	n/k
Hammersmith & Fulham	* 1967	3988	3988	100%	73000
Haringey	* 1970	7486	7486	100%	84452
Harrow	* Comp	12553	12553	100%	78089
Havering	* 1979	29650	29650	100%	100700
Hillingdon	* Comp	27260	27260	100%	107872
Hounslow	* 1972	14460	14460	100%	94967
Islington	* 1969	9091	9091	100%	82000
Kensington & Chelsea (Royal)	* Comp	2950	2950	100%	25288
Kingston upon Thames (Royal)	* 1980	9135	9135	100%	55738
Lambeth	* 1978	6738	6738	100%	c.106400
Lewisham	* Comp				
Merton	* 1977	9380	9380	100%	65800
Newham	* 1981/2	8985	8985	100%	87211
Redbridge	* 1971	13961	13961	100%	76900
Richmond-upon-Thames	* Comp	12866	12866	92%	88914
Southwark	1988	7114	6276	88%	116300
Sutton	* Comp	10732	10732	100%	67730
Tower Hamlets	* 1968	4875	4875	100%	n/k
Waltham Forest	* Comp	9804	9804	100%	86900
Wandsworth	* Comp	8861	8861	100%	121407
Westminster City	* 1970	2880	2540	88%	116300

	Target Date Comp	Final Acreage	Acreage (In Op) 31.3.89	% of total covered	Premises (In Op) 31.3.89
SOUTH EAST					
Aylesbury Vale DC (Bucks)	Susp	3594	913	0.4%	5230
Basildon DC (Essex)	x Susp	n/k	4528	17%	21682
Bracknell DC (Berks)	x Susp	-	3811	14%	27811
Brentwood DC (Essex)	x -	-	277	0.6%	2856
Brighton BC (E. Sussex)	x Susp	14613	1472	10%	24392
Broxbourne BC (Herts)	* 1988	12911	12911	100%	38553
Canterbury CC (Kent)	x n/k	77207	2625	0.3%	2965
Crawley BC (W.Sussex)	No return received				
Dacorum DC (Herts)	x -	3731	3731	7%	15000
Dartford BC (Kent)	* Comp	17267	17267	n/k	31035
Elmbridge BC (Surrey)	n/a	0.1	0.1	n/k	n/k
Epping Forest DC (Essex)	-	-	600	0.7%	2463
Gillingham BC (Kent)	* 1979	11023	11023	99.1%	42252
Gravesham BC (Kent)	* 1985	4532	4532	18%	25278
Guildford BC (Surrey)	Susp	n/k	2885	4%	10517
Harlow DC (Essex)	* 1965	6320	6320	100%	28000
Hertsmere DC (Herts)	-	24169	2121	9%	7913
Luton BC (Beds)	* 1979	10657	10657	100%	79129
Milton Keynes BC (Bucks)	x Susp	7862	7862	10%	24507
North Bedfordshire BC (Beds)	x 1987	5350	4800	4%	20526
North Hertfordshire DC (Herts)	x Clld	-	1341	1%	5000
Oxford CC (Oxfordshire)	x Susp	1534	941	61%	34881
Portsmouth CC (Hants)	Susp	9299	1556	16.8%	19039
Reading BC (Berks)	Susp	9106	5959	10%	32560
Rochester-Medway BC (Kent)	x n/k	n/k	6383	16%	19974
Sevenoaks DC (Kent)	Clld	-	1341	1%	c.3684
Slough BC (Berks)	* 1988/9	2757	2232	n/k	n/k
South Oxfordshire DC	n/k	506	-	0.3%	300
Southampton City (Hants)	-	4254	4254	35%	30892
Spelthorne BC (Surrey)	-	13880	11752	85%	30896
Stevenage BC (Herts)	* 1982	6257	6257	100%	39000
Thurrock BC (Essex)	Susp	-	10130	22%	22761
Watford BC (Herts)	* 1979	5275	5275	100%	36064
Windsor/Maidenhead RB (Berks)	* Comp	831	831	2%	2655
Wycombe DC (Bucks)	* Comp	3818	3818	5%	21500

Epsom & Ewell BC - under consideration

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EAST ANGLIA						
Cambridge City (Cambs)		Susp	n/k	24858	14%	n/k
King's Lynn & West Norfolk BC (Norfolk)		-	841	841	0.2%	4474
Norwich City (Norfolk)		Susp	9632	1535	16%	3362
Peterborough City (Cambs)		-	82424	6157	7.5%	26535
SOUTH WEST						
Bath CC (Avon)	x	1991	7091	971	14%	8683
Bristol CC (Avon)	*	1988	26516	26516	100%	155340
Cheltenham BC (Gloucs)		1996	8537	1134	13.3%	5838
Exeter CC (Devon)		-	11040	6499	60%	17746
Gloucester CC (Gloucs)		-	-	-	-	-
Kingswood BC (Avon)		-	-	13	0.1%	110
Northavon DC (Avon)		1990	6068	5570	4.9%	8805
WALES						
Alyn & Deeside DC (Clwyd)	x	-	-	50	0.1%	400
Delyn DC (Clwyd)	*	1983/4	486	486	0.7%	816
Newport BC (Gwent)		n/k	n/k	67	0.1%	1178
Swansea CC (W.Glamorgan)		1989	249	198	.3%	2147
Wrexham Maelor BC (Clwyd)	x	-	2916	2166	2%	10390
SCOTLAND						
Bearsden & Milngavie (Strathclyde)	x	-	-	8800	98%	15550
Clackmannan DC (Central)		n/k	39680	642	1.6%	3883
Clydebank DC (Strathclyde)	*	Comp	9240	9240	100%	19415
Cunninghame DC (Irvine)		1992	1302	609	0.3%	2036
Dumbarton DC (Strathclyde)		2005	11787	4301	3.7%	11126
Dundee DC (Tayside)		1981	12654	12654	100%	69778
Dunfermline DC (Fife)		Susp	-	931	1%	5309
East Kilbride DC	x	n/k	10250	5000	15%	25000
Edinburgh CC (Lothian)	x	1995	64000	26699	41%	95306
Ettrick & Lauderdale DC		-	-	1766	0.07%	6842
Falkirk DC (Central)		1993	13625	13525	18.1%	37406
Glasgow CC (Strathclyde)		1992	50037	43790	87.5%	307375
Hamilton DC (Strathclyde)		n/k	32378	4167	12.9%	15737
Inverclyde DC (Strathclyde)	x	n/k	n/k	1789	5%	8869
Kilmarnock & Loudoun DC (Strathclyde)		-	-	101	0.1%	577
Kirkcaldy DC (Fife)		n/k	61366	5839	9.5%	7083
Kyle & Carrick DC (Strathclyde)		1974	98	98	0.04%	156
Monklands DC (Strathclyde)	x	2000	40500	6241	15%	21581
Motherwell DC (Strathclyde)		-	-	878	2%	6518

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Nithsdale DC (Dumfries/Galloway)	x	n/k	-	2081	48%	3356
Renfrew DC (Strathclyde)		n/a	21986	21986	29%	71500
Roxburgh DC (Borders)	x	-	1240	425	0.1%	1900
Stirling DC (Central)	x	-	-	200	0.2%	c.2000
Strathkelvin DC (Strathclyde)		n/k	64000	5156	8%	c.10000
West Lothian DC (Lothian)		-	103401	6121	6%	15456

NORTHERN IRELAND

Antrim DC (Co. Antrim)	*	1976	740	740	0.6%	7096
Ards BC (Co. Down)		Clld	-	105	0.1%	823
Armagh DC (Co. Armagh)		-	-	5	-	96
Ballymena BC (Co. Antrim)	x	Susp	-	325	0.9%	890
Belfast City (Co. Antrim & Co. Down)		1996	26218	8022	30.6%	54958
Castlereagh DC (Co. Down)		-	6338	5428	26%	19000
Craigavon BC (Co. Armagh)		No return received				
Down DC (Co. Down)		n/k	n/k	482	<1%	1098
Larne BC (Co. Antrim)		n/k	n/k	5	0.01%	192
Londonderry CC (Londonderry)		No return received				
Newtownabbey DC (Co. Antrim)	x	n/k	n/k	1776	5%	7084
North Down DC (Co. Down)		-	-	435	2.39%	1100
Strabane DC (Co. Tyrone)	*	1974	54	54	-	750

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**BRITISH NUCLEAR ENERGY SOCIETY
(BNES)**

1-7 Great George Street
London SW1P 3AA
Tel: 01 630 0726

BP OIL LTD

BP House, Victoria Street
London SW1E 5SN
Tel: 01 821 2000

**CENTRAL ELECTRICITY GENERATING
BOARD**

Also **POWERGEN** and **NATIONAL POWER**
Sudbury House, 15 Newgate Street
London EC1A 7AU
Tel: 01 634 5111

**CENTRE FOR ALTERNATIVE
TECHNOLOGY (CAT)**

Machynlleth, Powys SY20 9A2
Tel: 0654 2400

COAL RESEARCH ESTABLISHMENT

Stoke Orchard
Cheltenham, Glos GL52 4RZ
Tel: 024267 3361

**COMBUSTION ENGINEERING
ASSOCIATION**

Mount Lodge
Station Parade
Sunningdale, Berks
Tel: 0990 25035

DEPARTMENT OF ENERGY

Thames House South
Millbank, London SW1 4QJ
Tel: 01 238 3000

**DOMESTIC SOLID FUEL APPLIANCES
APPROVAL SCHEME**

Hobart House, Grosvenor Place
London SW1X 7AE
Tel: 01 235 2020, ext. 34953

**ENERGY TECHNOLOGY SUPPORT UNIT
(ETSU)**

Energy Efficiency Branch
Building 156, AERE Harwell
Didcot, Oxon OX11 0RA
Tel: 0235 834621

ESSO UK plc

Victoria Street, London SW1E 5JW
Tel: 01 834 6677

100 - Section 6

HEATING AND VENTILATING CONTRACTORS ASSOCIATION (HCVA)

ESCA House
34 Palace Court
Bayswater
London W2 4JG
Tel: 01 229 2488

INSTITUTE OF ENERGY

18 Devonshire Street
London W1N 2AU
Tel: 01 580 7124

INSTITUTE OF PETROLEUM

61 New Cavendish Street
London W1M 8AR
Tel: 01 636 1004

LOW TEMPERATURE COAL DISTILLERS' ASSOCIATION OF GREAT BRITAIN LTD

P.O. Box 21, Chesterfield
Derbyshire S44 6AB
Tel: 0246 822281/9

NATIONAL RADIOLOGICAL PROTECTION BOARD (NRPB)

Chilton, Didcot
Oxon OX11 0R9
Tel: 0235 831600

NEIGHBOURHOOD ENERGY ACTION

2nd Floor, 2/4 Bigg Market
Newcastle upon Tyne NW1 1UW
Tel: 091 2615677

NIFES (National Industrial Fuel Efficiency Service Ltd.)

NIFES House
Sinderland Road, Broadheath
Altrincham, Cheshire WA14 5HQ
Tel: 061 928 5791

NUCLEAR INDUSTRY RADIOACTIVE WASTE EXECUTIVE (NIREX)

Building 173.6, AERE
Harwell, Didcot
Oxon OX11 0RA
Tel: 0235 835153

SHELL UK LTD

P.O. Box No. 148, Shell-Mex House
Strand, London WC2R ODX
Tel: 01 257 3000

SOCIETY OF BRITISH GAS INDUSTRIES

36 Holly Walk, Leamington Spa
Warwickshire CV32 4LY
Tel: 0926 34357/8/9

SOLID SMOKELESS FUELS FEDERATION

Devonshire House, Church Street
Sutton-in-Ashfield
Nottinghamshire NG17 1AE
Tel: 0623 550411

TEXACO LTD

1 Knightsbridge Green
London SW1X 7QJ
Tel: 01 584 5000

UK ATOMIC ENERGY AUTHORITY (UKAEA)

11 Charles II Street
London SWY 4QP
Tel: 01 930 5454

UNITED KINGDOM PETROLEUM INDUSTRY ASSOCIATION (UKPIA)

9 Kingsway,
London WC2B 6XH
Tel: 01 240 0289

WARMER CAMPAIGN (Warmth and Energy from Rubbish)

83 Mount Ephraim
Tunbridge Wells, Kent TN4 8BS
Tel: 0892 24626

WATT Committee on Energy

Savoy Hill House, Savoy Hill
London WC2 ROBV
Tel: 01 379 6875

WOMEN'S GAS FEDERATION

Orchard House
14 Great Smith Street
London SW1P 3BU
Tel: 01 222 3677

GENERAL

BRITISH SOCIETY FOR SOCIAL RESPONSIBILITY IN SCIENCE

25 Horsell Road,
London N5 1XL
Tel: 01 607 9615

CONSUMERS ASSOCIATION (CA)

2 Marylebone Road
London NW1 2DX
Tel: 01 486 5544

NATIONAL CONSUMER COUNCIL (NCC)

20 Grosvenor Gardens
London SW1W 0DH
Tel: 01 730 3469

NATIONAL COUNCIL FOR VOLUNTARY ORGANISATIONS (NCVO)

26 Bedford Square
London WC1B 3HU
Tel: 01 636 4066

GOVERNMENT ORGANISATIONS

DEPARTMENT OF THE ENVIRONMENT (DOE)

Air and Noise Division:
Romney House, 43 Marsham Street
London SW1P 3PY
Tel: 01 276 8322
& General Switchboard
Tel: 01 276 3000

DEPARTMENT OF TRADE & INDUSTRY (DTI)

1 Victoria Street,
London SW1H 0ET
Tel: 01 215 5000

DEPARTMENT OF TRANSPORT (DOT)

2 Marsham Street
London SW1P 3EB
Tel: 01 276 0990

HEALTH AND SAFETY EXECUTIVE (HSE)

Baynards House
1 Chepstow Place, Westbourne Grove
London W2 4TF
Tel: 01 299 3456

HEALTH AND SAFETY COMMISSION (HSC)

Baynards House
1 Chepstow Place
Westbourne Grove
London W2 4TF
Tel: 01 243 4000

HM INSPECTORATE OF POLLUTION (HMIP)

Romney House
43 Marsham Street
London SW1P 3PY
Tel: 01 276 8642

District A - Cleveland, Durham, Northumberland

Vincent House
2 Woodland Road
Darlington
Co. Durham
Tel: 0325 380635

District B - Cumbria, Lancashire

Air Division West, Room 409
Victoria House
Ormskirk Road, Preston
Lancs PR1 1HH
Tel: 0772 202322

District C - North & West Yorkshire

Woodside House
261 Low Lane, Horsforth
Leeds LS18 5TW
Tel: 0532 581099

District D - Cheshire, Merseyside, Clwyd, Gwynedd

Gateway House
86 Northgate Street, Chester

District E - Staffs, Salops, Warwicks, Hereford & Worcs., W. Midlands

McLaren Building
2 Masshouse Circus
Queensway, Birmingham, B4 7NP
Tel: 021 236 7674

District F - S. Yorks, Derbyshire

Department of the Environment
Sovereign House
40 Silver Street
Sheffield S1 2ES
Tel: 0742 700459

District G - Humberside, Lincs, Notts, Leics

1st Floor, Viking House
98 Newland, Lincoln LN1 19A
Tel: 0522 512566

District H - Beds, Bucks, Cambs, Herts, Northants, Oxon, W - N/W London

14 Cardiff Road, Luton
Beds LU1 1PP
Tel: 0582 424240

District J - Essex, Norfolk, Suffolk, NE London

39 Baddow Road
Chelmsford, Essex CM2 0HL
Tel: 0245 490473/4

102 - Section 6

**District K - Kent, E Sussex, W Sussex,
Hants, Surrey, Berks, Greater London
South London**
3 Eastfield House
London Road, East Grinstead
West Sussex RH19 1RR
Tel: 0342 26922

**District L - Dyfed, W Glamorgan, Mid Glamorgan
S Glamorgan, Gwent, Powys**
Brunel House
2 Fitzalen Road
Cardiff CF2 1TT
Tel: 0222 473777

**District M - Avon, Cornwall, Devon, Dorset,
Glos, Somerset, Wilts**
Inter City House
Mitchell Lane
Bristol BS1 6AN
Tel: 0272 277732

HMIP NORTHERN IRELAND
Department of the Environment
for Northern Ireland, Alkali and
Radiochemical Inspectorate
Calvert House, 23 Castle Place
Belfast BT1 1FY
Tel: 0232 230560

**HM INDUSTRIAL POLLUTION
INSPECTORATE FOR SCOTLAND**
Scottish Development Department
27 Perth Street
Edinburgh EH3 5RB
Tel: 031 244 3056

**INVESTIGATION OF AIR POLLUTION
STANDING CONFERENCE**
Warren Spring Laboratory
Gunnels Wood Road
Stevenage
Tel: 0438 741122

**MINISTRY OF AGRICULTURE
FISHERIES & FOOD (MAFF)**
Whitehall Place, London SW1A 2HH
Tel: 01 233 3000

**PARLIAMENTARY AND SCIENTIFIC
COMMITTEE**
30 Farringdon Street
London EC4A 4EA
Tel: 01 634 1480

WARREN SPRING LABORATORY
Gunnels Wood Road
Stevenage, Herts SG1 2BX
Tel: 0438 741122

HEALTH

ACTION ON SMOKING AND HEALTH (ASH)
5-11 Mortimer Street
London WIN 7RH
Tel: 01 637 9843

ASTHMA SOCIETY
300 Upper Street
London N1 2XX
Tel: 01 226 2260

DEPARTMENT OF HEALTH
Richmond House
79 Whitehall, London SW1A 2NS

HEALTH EDUCATION AUTHORITY
Hamilton House, Mabledon Place
London W2 4TF
Tel: 01 631 0930

**INSTITUTE OF HOSPITAL
ENGINEERING**
20 Landport Terrace
Southsea, Hampshire PO1 2RG
Tel: 0705 823186

**INSTITUTION OF ENVIRONMENTAL
HEALTH OFFICERS (IEHO)**
Chadwick House
Rushworth Street
London SE1 OQT
Tel: 01 928 6006

**ROYAL ENVIRONMENTAL HEALTH
INSTITUTE OF SCOTLAND (REHIS)**
Virginia House, 62 Virginia
Street, Glasgow G1 1TX
Tel: 041 552 1533

**ROYAL INSTITUTE OF PUBLIC
HEALTH AND HYGIENE (RIPHH)**
28 Portland Place
London W1N 4DE
Tel: 01 580 2731/2

**UNIVERSITY OF BIRMINGHAM
INSTITUTE OF OCCUPATIONAL HEALTH**

University Road West
P.O. Box 363, Birmingham B15 2TT
Tel: 021 471 6030

INDUSTRIAL ORGANISATIONS

ASBESTOS INFORMATION CENTRE

St. Andrews House
22-28 High Street
Epsom, Surrey KT19 8AH
Tel: 03727 42055

**ASBESTOS REMOVAL CONTRACTORS'
ASSOCIATION**

1 High Street, Chelmsford
Essex CM1 1BE
Tel: 0245 259755

**ASSOCIATION OF INDUSTRIAL FILTER
AND SEPARATOR MANUFACTURERS**

15 Took's Court
London EC4 1LA
Tel: 01 405 5445

**BRITISH COMBUSTION EQUIPMENT
MANUFACTURERS' ASSOCIATION**

The Fernery, Market Place
Midhurst, West Sussex GU29 9DP
Tel: 073 081 2782

**BRITISH INDUSTRIAL MEASURING AND
CONTROL APPARATUS MANUFACTURERS'
ASSOCIATION**

See GAMBICA

BRITISH STANDARDS INSTITUTION

(BSI)
British Standard House, 2 Park
Street, London W1A 2BS
Tel: 01 629 9000

**CONFEDERATION OF
BRITISH INDUSTRY (CBI)**

Centre Point, 103 New Oxford
Street, London WC1A 1DU
Tel: 01 379 7400

FILTRATION SOCIETY

7 Manor Close, Oadby
Leicester LE2 4FE
Tel: 0533 720536

GAMBICA (The Association for the
Instrumentation, Control &
Automation Industry in the UK)
Leicester House, 8 Leicester
Street, London WC2H 7BN
Tel: 01 437 0678

**INSTITUTION OF MECHANICAL
ENGINEERS, (IMECHE)**

1 Birdcage Walk
London SW1H 9JJ
Tel: 01 222 7899

INSTITUTION OF PLANT ENGINEERS

138 Buckingham Palace Road
London SW1W 9SG
Tel: 01 730 0469

SOCIETY OF ENVIRONMENTAL ENGINEERS

Owles Hall, Buntingford
Herts
Tel: 0763 71209

SUSTAINABILITY

1 Cambridge Road
Barnes, London WC2N 6E2
Tel: 01 930 5115

LOCAL GOVERNMENT ORGANISATIONS

**ASSOCIATION OF COUNTY COUNCILS
(ACC)**

Eaton House, 66A Eaton Square
London SW1W 9BH
Tel: 01 235 1200

**ASSOCIATION OF DISTRICT COUNCILS
(ADC)**

9 Buckingham Gate, London
SW1E 6LE
Tel: 01 828 7931

**ASSOCIATION OF METROPOLITAN
AUTHORITIES (AMA)**

35 Great Smith Street
London SW1P 3BJ
Tel: 01 222 8100

**CONVENTION OF SCOTTISH LOCAL
AUTHORITIES**

Rosebery House, 9 Haymarket Terrace
Edinburgh EH12 5XZ
Tel: 031 346 1222

LONDON BOROUGH ASSOCIATION

Westminster City Hall
Victoria Street
London SW1E 6QP
Tel: 01 798 2736

**MANCHESTER AREA POLLUTION
ADVISORY
COUNCIL (MAPAC)**

Director of Environmental Health
Environmental Health Department
Town Hall, Manchester M60 2JB
Tel: 061 234 5000

**MIDLAND JOINT ADVISORY COUNCIL FOR
CLEAN AIR AND NOISE CONTROL**

Environmental Health and Consumer
Services Dept.
Dudley MBC
4 Ednam Road
Dudley, W. Midlands DY1 1RW

SCOTTISH DEVELOPMENT DEPARTMENT

Environmental Protection Division,
27 Perth Street
Edinburgh EH3 5RB
Tel: 031 556 8400

METEOROLOGY

METEOROLOGICAL OFFICE

London Road, Bracknell
Berkshire RG12 2SZ
Tel: 0344 420242

ROYAL METEOROLOGICAL SOCIETY

James Glaisher House
Grenville Place, Bracknell
Berkshire RG12 1BX
Tel: 0344 422957

NOISE

**ASSOCIATION FOR THE REDUCTION OF
AIRCRAFT NOISE (ARRAN)**

11 First Street
London SW3
Tel: 01 584 1848

ASSOCIATION OF NOISE CONSULTANTS

Spectrum House
20-26 Cursitor Street
London EC4A 1HY
Tel: 01 405 2088

INSTITUTE OF ACOUSTICS

25 Chambers Street
Edinburgh EH1 1HU
Tel: 031 225 2143

**INSTITUTE OF SOUND
& VIBRATION RESEARCH**

Building 15A, The University
Southampton SO9 5NH
Tel: 0703 559122

NOISE ABATEMENT SOCIETY

PO Box No. 8, Bromley
Kent BR2 0UH
Tel: 01 460 3146

THE NOISE COUNCIL

25 Chambers Street
Edinburgh EH1 1HU
Tel: 031 2252143

SOUND RESEARCH LABORATORIES

The Coach House
49 East Street
Colchester, Essex CO1 2TG
Tel: 0206 870025

TRANSPORT

AIRFIELDS ENVIRONMENT FEDERATION

17/19 Red Cross Way
London SE1 1TA
Tel: 01 378 6766

**BRITISH INTERNAL COMBUSTION
ENGINE RESEARCH INSTITUTE LTD**

111-112 Buckingham Avenue
Trading Estate, Slough
Berkshire SL1 4PH
Tel: 0753 27371

CYCLE CAMPAIGN NETWORK

Tress House, 3 Stamford
Street, London SE1 9NT
Tel: 01 928 7220

BRITISH CYCLING FEDERATION (BCF)

16 Upper Woburn Place
London WCIH 09E
Tel: 01 381 9320

ELECTRIC VEHICLE ASSOCIATION (EVA)

Aberdeen House, Headley Road
Grayshott, Hindhead
Surrey GU26 6LA
Tel: 042873 5563

ELECTRIC VEHICLE DEVELOPMENT GROUP (EVDG)

33/34 Alfred Place
London W1

INSTITUTE OF ROAD TRANSPORT ENGINEERS

1 Cromwell Place, Kensington
London SW7 2JF
Tel: 01 589 3744

MOTOR INDUSTRY RESEARCH ASSOCIATION

Watling Street, Nuneaton
Warwickshire CV10 OTU
Tel: 0203 348541

ROAD HAULAGE ASSOCIATION LTD

104 New Kings Road
London SW6 4LN
Tel: 01 736 1183

TRANSPORT AND ROAD RESEARCH LABORATORY

Department of Transport
Old Wokingham Road
Crowthorne, Berkshire RG11 6AU
Tel: 0344 773131

TRANSPORT 2000

Walkden House
10 Melton Street
Euston, London NW1 2EJ
Tel: 01 388 8386

WASTE/RECYCLING

INSTITUTION OF WASTES MANAGEMENT

3 Albion Place
Northampton NN1 1UD
Tel: 0604 20426

NATIONAL ASSOCIATION OF WASTE DISPOSAL CONTRACTORS (NAWDC)

Wheatsheaf House
4 Carmelite Street
London EC4Y 0BN
Tel: 01 633 2786

TIDY BRITAIN GROUP

The Pier, Wigan
Greater Manchester
WN5 4EX
Tel: 0942 824620

WASTEWATCH

National Council for Voluntary Organisations, 26 Bedford Square, London WC1B 3HV
Tel: 01 636 4066

INTERNATIONAL DIRECTORY

NATIONAL ORGANISATIONS

ARGENTINA

Asociacion Argentina Contra la Contaminacion Ambiental (AACCA)

25 de Mayo 749 - 1º piso (1002)
Buenos Aires, Argentina
President: Dr. R.M. Rodriguez
Tel: (+54-1) 312-1015; 394-3984/2374/6281

AUSTRALIA

Clean Air Society of Australia and New Zealand, P.O. Box 191
Eastwood, New South Wales 2122
Secretary: Dr T R Harry
Tel: (+62-1) 4843563

BELGIUM

SCK/CEN Environmental Chemistry
Boeretang 200
B-2400 MOL
Belgium
Dr. H.J. Peperstraete
Tel: (+32-14) 31.18.01

CANADA

Environment Canada
Terrasses de la Chaudiere
10 Wellington Street
Ottawa, Ontario, K1A 0H3
Canada

CHINA

**Chinese Society of
Environmental Sciences (CSES)**
Xizhimennei Naxiaojre 115
Beijing 100035, China
Secretary: Hou Xushong
Tel: (+86-1) 661006

DENMARK

**Danish Association for the
Protection of Nature**
Noerregade 2
DK 1165 Copenhagen K

FINLAND

**Finnish Air Pollution Prevention
Society**
P.B. 335
SF-00131 Helsinki
Executive Member: Ms Eija Lumme

FRANCE

**Association pour la Prevention
de la Pollution Atmospherique**
58 rue du Rocher, 75008 Paris
President: M. Pierre Gaussens
Tel: (+31 1) 42936207

GERMAN DEMOCRATIC REPUBLIC

Abgasprufstelle der DDR
Rudower Chaussee 6
1199 Berlin

GERMANY, FEDERAL REPUBLIC OF

**Verein Deutscher Ingenieure
(VDI) - Kommission Reinhaltung
der Luft**
Postfach 1139
Graf-Recke-Str, 84
D-4000 Dusseldorf 1
Secretary: Dr. Ing. Klaus Grefen
Tel: (+49-211) 62141

HUNGARY

**National Authority for
Environment Protection and
Nature Conservation**
PO Box 732
H-1365 Budapest

ICELAND

**Icelandic Association of
Nature Conservation Societies**
Sundstraeti 24
Isafiroi

INDIA

**Indian Association for Air
Pollution Control (IAAPC)**
Jawahar Lal Nehru University
PO Bag No. 03
New Delhi - 110067
President: Prof. J.M. Dave
Tel: (+91-11) 665768

ITALY

**Comitato di Studio per
l'Inquinamento Atmosferico
within Associazione
Termotecnica Italiana**
c/o ISMAR, Via Assarotti 15/8
16122 - Genova
President: Prof. G. Ferraiolo
Tel: (+39-10) 887766

JAPAN

**Japanese Union of Air Pollution
Prevention Associations (JUAPPA)**
Shuwa Toranomom No. 3 Bldg.
21-8 Toranomom 1 chome, Minato-ku
Tokyo 105
Director: M.Ue
Tel: (+81-3) 580-8800

KOREA

**The Korea Air Pollution
Research Association**
280-17, Bulkwang-Dong
Eunpyung-Gu
Seoul 122
President: Dr. Chul Whan Cha
Tel: (+ 82-2) 358-1427

MALAYSIA

**Environmental Protection Society
Malaysia (EPSM)**
Peti Surat 382, Petaling Jaya
Tel: (+60-3) 757767

MALTA

Society for Clean Air
8-10 Civic Centre, Senglea
Malta

MEXICO

**Centro de Ciencias de la
Atmosfera,**
Circuito Exterior, Ciudad Universitaria
Mexico 20 DF
Secretary: Dr. Humberto Bravo

NETHERLANDS

**Society for Clean Air in
The Netherlands (CLAN)**
PO Box 186
2600 AD Delft
Tel: (+31-15) 569330
Secretary: Dr.J. van Ham

NEW ZEALAND

**New Zealand Clean Air Society
Inc.**
P.O. Box 2363
Christchurch

**The Commissioner for the
Environment**
P.O. Box 10241
Wellington

NORWAY

**Norwegian Clean Air Association
(Ren Luft Foreningen - RLF)**
Kronprinsensgate 17
N-0251 Oslo 2
Secretary: Vigdis Ekeberg
Tel: (+47-2) 838330

PAPUA NEW GUINEA

**Dept. of Environment and
Conservation,**
PO Box 6601,
Boroko,

PERU

**Asociacion Peruana Para el
Control de la Contaminacion
del Aire (APPCCA)**
Casilla No. 14.0246
Lima 14
President: M.A. Vizcarra Andreu

PORTUGAL

**Secretaria do Estado do Ambiente
e Recursos Naturais**
Rua do Seculo, 51
1200 Lisboa. (Government Dept.)

SAUDI ARABIA

**Meteorology and Environmental
Protection Administration (MEPA)**
PO Box 1358
Jeddah 21431
President: Abdulbar A. Al-Gain
Tel: (+966-2) 6511124

SINGAPORE

**Environmental Engineering Society
of Singapore, Clean Air Section**
c/o Faculty of Engineering
National University of Singapore
Kent Ridge
Singapore O511
Prof. K.K. Chin/Dr.S.K. Chou

SOUTH AFRICA

National Association for Clean Air
P.O. Box 5777
Johannesburg 2000
Director: Gordon H. Grange
Tel: (+27-11) 728 2418

SWEDEN

**National Swedish Environment
Protection Board,**
Box 1302
S-171 25 Solna

SWITZERLAND

**Schweiz. Vereinigung fur
Gesundheitstechnik (SVG)**
Postfach 305
CH-8035 Zurich
Contact: W. Hess

U.S.A.

Air and Waste Management Association
P.O. Box 2861
Pittsburgh, P.A. 15230
Executive Vice President: Martin E. Rivers
Tel: (+1-412) 412 232 344

USSR

**All Russian Society for
Conservation of Nature**
Proezd Kuibyshev 3
Moscow K-12

YUGOSLAVIA

**Yugoslav Union of Air
Pollution Prevention Associations**
P.O. Box 79
71001 Sarajevo
Secretary: Dr. A. Knezevic

108 - Section 6

INTERNATIONAL ORGANISATIONS

**Commission of the European
Communities Information Office**
8 Storey's Gate
London SW1P 3AT
Tel: 01-222 8122

European Environmental Bureau
29 Rue Vautier
B-1040 Bruxelles
Belgium
Secretary: Ernst Klatte
Tel: 010 322 514 1250

**European Parliament Information
Office**
2 Queen Anne's Gate
London SW1H 9AA
Tel: 01-222 0411

**The United Nations Economic
Commission For Europe**
Environment and Human Settlements Division
Palais des Nations
1211 Geneva 10
Switzerland
Director: C. Lopez-Polo

**United Nations Environment
Programme (UNEP)**
17 rue Margueritte
75017 Paris
France
Tel: 47 66 16 40

World Health Organisation
Division Of Environmental Health
Avenue Appia
1211 Geneva 27
Switzerland
Dr. H.W. de Koning

SECTION 7

**Guide to Pollution Control
Equipment manufacturers,
suppliers and consultants
Classified Entries**

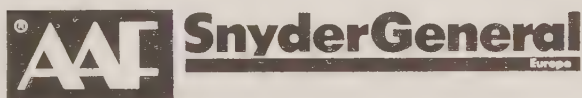
AAC EUROVENT LIMITED

Leighswood Grove
Aldridge
West Midlands WS9 8SY
Tel: 0922 59757
Fax: 0922 733143
Telex: 339612 AAC

Manufacturers of activated carbon filters from single trays to complete installations of any size, dust and fume extraction units, also dust and fume extraction, heat recovery. Full technical back up services.

AAF LIMITED

Bassington Lane
Cramlington
Northumberland NE23 8AF
Tel: 0670 713477
Fax: 0670 714370
Telex: 53491 AMFIL G



Manufacturers and marketers of a wide range of environmental air quality control products and systems including air conditioning, heat recovery, air filtration, air pollution control products and systems.

**ACOUSTICAL INVESTIGATION
AND RESEARCH
ORGANISATION LTD (AIRO)**

Duxons Turn
Maylands Avenue
Hemel Hemstead
Hertfordshire
HP2 4SB
Tel: 0442 47146/9
Fax: 0442 56749
Telex: 825445

AIRO

An independent consultancy offering a comprehensive service for any scale of project in acoustics, noise and vibration control, with extensive laboratory test facilities.

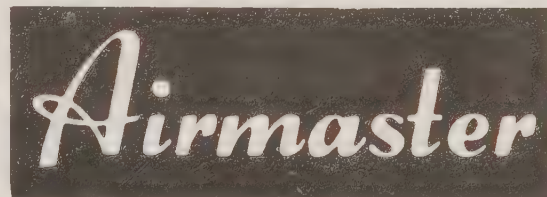
AIR IMPROVEMENT CENTRE LTD

23 Denbigh Street
London SW1V 2HF
Tel: 01 834 2834
Fax: 01 821 8485

Suppliers of a wide range of air improvement products by all leading manufacturers. London shop, nationwide dispatch service, free literature and advice.

AIRMASTER ENGINEERING LTD

New Olympia Works
Limewood Approach
Seacroft
Leeds LS14 1NG
Tel: 0532 733333
Fax: 0532 650735
Telex: 557227



Provide industrial dust control units and plant for intermittent or continuous applications.

AIROIL FLAREGAS LTD

Horton Road
West Drayton
Middlesex UB7 8BG
Tel: 0895 444031
Fax: 0895 420982
Telex: 23923 AIROIL G



Designers and manufacturers of high performance combustion equipment - including forced and natural draught burners, flare systems, electronic sequence control and flame detection and ignition systems.

ALFRED PETERS LTD

Industrial Estate
Hunmanby
N. Yorks YO14 0PH
Tel: 0723 890141

Manufacturers of audiometric and acoustic equipment.

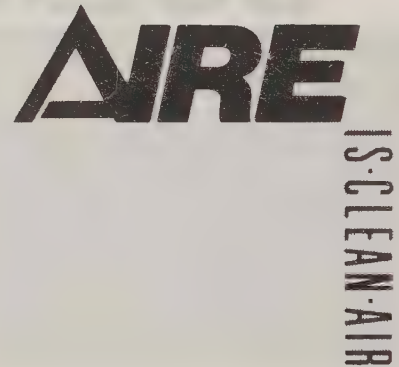
AMBUCO PROCESS EQUIPMENT LIMITED

55 London Road
Raunds
Wellingborough
Northants NN9 6EH
Tel: 0933 624424
Fax: 0933 227237
Telex: 312305

Over 25 years experience in air pollution control. Manufacturers of a wide range of equipment including wet scrubbers, cyclones, multicyclones, fabric filters and close capture hoods. Offers a comprehensive consultancy service with air flow and emission testing facilities. Also fluostatic range of fluidised bed dryers and coolers.

BASSAIRE LTD

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Swanwick
Southampton SO3 7ZS
Tel: 0489 885111
Fax: 0489 885211
Telex: 477605 BASAIR G



Clean Rooms - designed and installed to meet US and British Standards and all worldwide recommended clean air practices.

When installing clean areas full air monitoring service is provided. Laboratory fume cupboards - manufactured and designed to British standard, fully tested, installation, commissioning and certification.

BCRA Scientific and Technical Services Ltd

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Wingerworth
Chesterfield
Derbyshire S42 6NG
Tel: 0246 209654
Fax: 0246 272247
Telex: 547061 CB WING G

Independent consultants: stack emission/general air pollution measurement, COSHH assessment/monitoring, environmental impact evaluations, odour measurement, liquid effluent analysis, treatment plant design, trouble shooting etc.

BEDFONT TECHNICAL INSTRUMENTS LTD

Bedfont House
Holywell Lane
Upchurch
Sittingbourne
Kent ME9 7HN
Tel: 0634 375614/378317
Fax: 0634 378980
Telex: 261507 Ref. 3979

BEDFONT
TECHNICAL INSTRUMENTS LTD

Manufacturers of gas detectors.

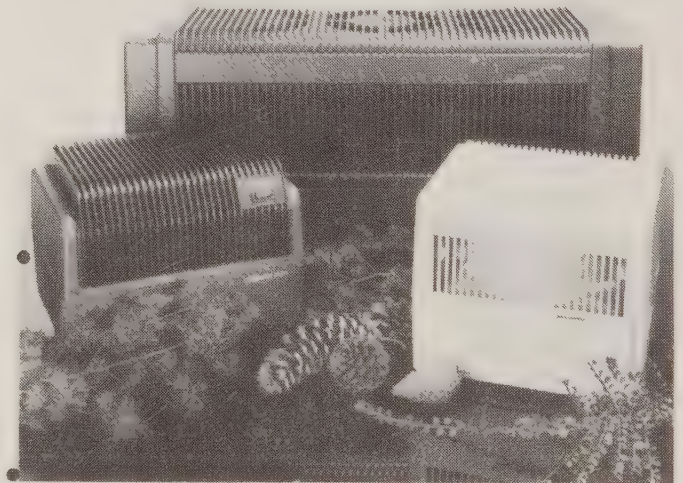
BERRIDGE ENVIRONMENTAL LABORATORIES LTD

Robjohns Road
Chelmsford
Essex CM1 3TW
Tel: 0245 268461
Fax: 0245 490718
Telex: 995282 HBB G

Consultancy and laboratory services in the management of the environment.
Sampling and analysis of polluted air, water and land.

BIOCOMFORT LTD

Harlequin House
7 High Street
Teddington
Middlesex TW11 8EH
Tel: 01 943 3378/9
Fax: 01 977 6010



Manufacturers of air cleanser, ioniser and humidifier rolled into one.

BRISTOL INDUSTRIAL RESEARCH ASSOCIATES LTD (Biral)

PO Box 2
Portishead
Bristol BS20 9JB
Tel: 0272 847787
Fax: 0272 847303
Telex: 444214

Suppliers of research and monitoring equipment, particularly for aerosols and clean room instrumentation.

**BUILDING RESEARCH
ESTABLISHMENT (BRE)**

Building Research Station
Bucknalls Lane
Garston

Watford WD2 7JR

Tel: 0923 664800

Fax: 0923 664010

Telex: 923220 BRSBRE G

Provides consultancy advice on building acoustics, sound insulation of buildings, noise in and around buildings.

BRUEL & KJAER (UK) LTD

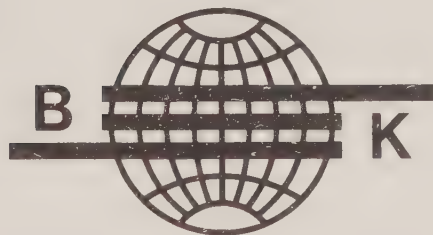
Harrow Weald Lodge
92 Uxbridge Road
Harrow

Middlesex HA3 6BZ

Tel: 01 954 2366

Fax: 01 954 9504

Telex: 934150



Instrumentation for the control of environmental pollution. Produce a range of sound level measurement and analysis equipment, also portable gas monitoring instruments using photoacoustics, suitable for both long and short term sampling.

CADOGAN CONSULTANTS

The Court House

Bisley

Stroud

Gloucestershire GL6 7AA

Tel: 0452 770010

Fax: 0452 770058



Consulting engineers in chemical and energy engineering, utilisation of low grade coals, industrial/agricultural/urban wastes and refuse, energy management, process development, technology transfer worldwide including rural energy centres for converting waste into usable fuels with minimal environmental pollution.

**CARTER INDUSTRIAL PRODUCTS
LTD**

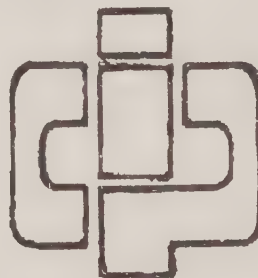
Bedford Road

Birmingham B11 1AY

Tel: 021 772 4300

Fax: 021 772 3672

Telex: 339219



Cooling towers, heat exchangers, automatic cleaning water filtration plant and equipment, multi-media & bag filters, hydrocyclones, water purification & effluent treatment plants, dust control plants, reverse jet filters, cartridge filters, wet scrubber collectors, ducting, full turnkey water & air treatment plants.

CASELLA LONDON LTD

Belmont House
Vicarage Road
Edgbaston
Birmingham B15 3EZ
Tel: 021 454 9922
Fax: 021 454 1881
Telex: 827707



Complete range of environmental monitoring equipment for dust, gases, vapours, airborne particles, meteorological equipment, health and safety equipment. Consultancy service including atmospheric and water quality, derelict/contaminated land, environmental impact assessment, occupational hygiene, asbestos management, project management.

C AIR (UK) LTD

PO Box 83
Covent Garden
London WC2H 9AJ
Tel: 01 379 3451
Fax: 01 836 0871

Manufacturers of ionisers.

CIRRUS RESEARCH LIMITED

Acoustic House
Bridlington Road
Hunmanby
North Yorkshire YO14 0PH
Tel: 0723 891655
Fax: 0723 500117
Telex: 527579G

Producers of noise control instruments based on personal computers. Hand held units can acquire and store noise data in the field which can be transferred to a desktop computer for measurement.

CLAYTON BOSTOCK HILL & RIGBY LTD

Head Office
288 Windsor Street
Birmingham B7 4DW
Tel: 021 359 5951
Fax: 021 359 7606
Telex: 337273

Clayton
Bostock
Hill &
Rigby

Environmental consultants and analytical chemists. Surveys, sampling, analysis, interpretation and remediation for atmospheric emissions, noise, occupational hygiene, contaminated land and wastewater. Area offices covering London and Southampton

CMB ENGINEERING

Chew Moor Lane
Westhoughton
Bolton
Lancashire BL5 3JL
Tel: 0942 815111
Fax: 0942 814953
Telex: 67163 CMBE WH



Engineering

Manufacture and installation of thermal and catalytic oxidisers for control of volatile organic compounds in a range of process exhausts. Suppliers of gas coolers for use with bag filters in cement, lime and similar plants and a range of scrap and waste shredders.

COMBUSTION DEVELOPMENTS LTD (CODEL)

Station Building
Station Road
Bakewell
Derbyshire DE4 1GE
Tel: 0629 814351
Fax: 0629 814619
Telex: 377252

CODEL

Emission monitoring of dust, smoke, carbon monoxide, sulphur dioxide, nitric oxide. Also data loggers that interpret the Clean Air Acts and monitoring systems engineered for use in road tunnels.

A R COPPEN & PARTNERS

Stone Castle
307 London Road
Greenhithe
Kent DA9 9JG
Tel: 0322 843106

Environmental engineering consultants. Services include employee dust exposure and work area ambient air quality measurements; employee noise exposure measurements; plant and boundary noise surveys; noise complaint investigations.

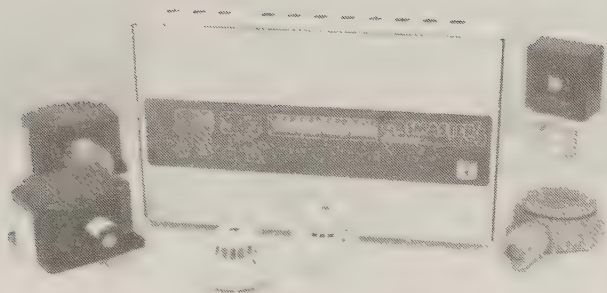
CREMER & WARNER

140 Buckingham Palace Road
London SW1W 9SQ
Tel: 01 730 0777/6101
Fax: 01 730 5698
Telex: 918666 CRECON G

Air quality assessment, atmospheric dispersion modelling, chimneys, acid emission control, FGD. Industrial emission control. Odour, dust and smut nuisance, visible plumes. Occupational and community exposure to pollutants and contaminants. Design of monitoring systems. Solid and hazardous waste disposal, contaminated land, landfill gas, water pollution. Also safety, risk management, accident investigation, process/project engineering, technical litigation/arbitration.

CROWCON INSTRUMENTS LTD

2 Blacklands Way
Abingdon Business Park
Abingdon
Oxon OX14 1DY
Tel: 0235 553057
Fax: 0235 553062
Telex: 837688 Crocon G



Specialists in manufacture, installation, commissioning gas detection systems. Full range of portable gas detectors for monitoring flammable/toxic gases and oxygen.

DAMES & MOORE

Booth House
15-17 Church Street
Twickenham TW1 3NJ
Tel: 01 891 6161
Fax: 01 891 4457
Telex: 929861

Environmental consultants with international experience in regulatory compliance assessment, evaluation of ambient and workplace air, environmental impact assessment, process evaluation, ground/groundwater contamination delineation/cleanup, environmental audit, dispersion modelling for air and groundwater, occupational health and safety evaluations.

DCE LIMITED

Humberstone Lane
Thurmaston
Leicester LE4 8HP
Tel: 0533 696161
Fax: 0533 693028
Telex: 342409 DUST G



Manufacturers of dust control plant incorporating unit dust collectors, reverse jet filters, advanced technology dust collectors, dust suppression system - back up service available.

DIONEX (UK) LTD

4 Albany Court
Camberley
Surrey GU15 2PL
Tel: 0276 691722
Fax: 0276 691837



DIONEX

Manufacturers of analytical instruments for air and water pollution monitoring including environmental analyser series covering ion chromatography, liquid chromatography and flow injection analysis in one instrument.

DONALDSON TORIT

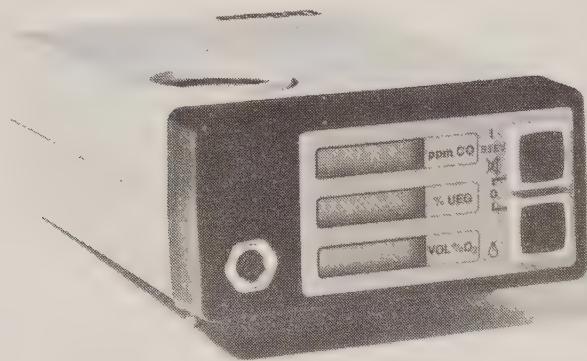
65 Market Street
Hednesford
Staffs WS12 5AD
Tel: 054 38 5515
Fax: 054 38 79136
Telex: 338940 TORIT G



Pollution control engineers specialising in the removal of in-plant dust hazards. The main equipment presently being marketed is the "dowflow" reverse jet filter and the "vibra shake" cabinet filter.

DRAEGER LTD

The Willows
Mark Road
Hemel Hempstead
Herts HP2 7BW
Tel: 0442 3542
Fax: 0442 40327
Telex: 826093



Manufacturers of detector tubes and instruments for the detection and monitoring of oxygen and flammable/toxic gases. Also stack emission analysis equipment.

DUST SUPPRESSION INTERNATIONAL LTD

Bourne End Mills
Bourne End
Hemel Hempstead
Herts HP1 2ZD
Tel: 0442 865522
Fax: 0442 865147
Telex: 825075



Design, installation, consultancy of dust suppression systems for steel works, quarries, mines, shipping terminals, coal plants, waste/refuse stations, grain terminals, tunnelling machines etc.

DUSTRACTION LTD

Box No. 75
Mandervell Road
Oadby
Leicester LE2 5ND
Tel: 0533 713212/3/4
Fax: 0533 713215

DUSTRACTION
Limited

Specialists in design, manufacture, installation of dust and fume control plant and equipment. Also dust level readings to COSHH regulations.

ECOTEC Research and Consulting Ltd

Priory House
18 Steelhouse Lane
Birmingham B4 6BJ
Tel: 021 236 9991
Fax: 021 233 4394

Independent research and consulting company providing economic, environmental and management consultancy services on an international basis. Ten years experience advising on environmental and policy issues.

ENGELHARD LTD

Valley Road
Cinderford
Gloucestershire GL14 2PB
Tel: 0594 22181
Fax: 0594 26013
Telex: 43274

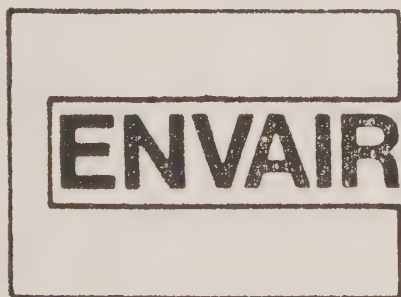
ENGELHARD

EXCEPTIONAL TECHNOLOGIES

Manufacturers of mobile source emission catalysts for e.g. cars, lorries, forklift trucks, mining equipment, aircraft and stationary source emission catalysts for controlling industrial air emissions for power generation plants and process industries.

ENVAIR UK LTD

York Avenue
Haslingden
Rossendale
Lancs BB4 4HX
Tel: 0706 228416
Telex: 63107 ENVAIR G



Manufacturers of clean air equipment, safety cabinets and isolators.

ENVIRO TECHNOLOGY

Unit 1, Lightpill Trading Estate
117 Bath Road
Stroud
Gloucestershire GL5 3QF
Tel: 0453 751641
Fax: 0453 757596
Telex: 43663 ETSL



Instrumentation and software specialists in all aspects of air quality monitoring, providing systems, instruments and monitoring services to professional users.

ENVIRONMENTAL TECHNOLOGY CENTRE INDUSTRIAL SERVICES

Dept. of Chemical Engineering
UMIST, PO Box 88
Manchester M60 1QD
Tel: 061 200 3979
Fax: 061 228 7040
Telex: 666094 UMIST G

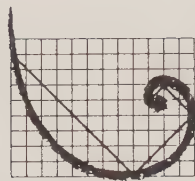
ENVIRONMENTAL TECHNOLOGY CENTRE

Industrial Services


Specialists in air and water quality monitoring, waste and water treatment, disposal and treatment of solid and toxic wastes, analysis/assessment of contaminated land, risk assessment of major hazards. Consultancies for a range of clients, including desk based evaluations, site surveys etc. backed up by in-house analytical facilities.

ENVIRONMENTAL RESOURCES LTD (ERL)

106 Gloucester Place
London W1H 3DB
Tel: 01 486 1211
Fax: 01 935 8355
Telex: 296359 ERL G

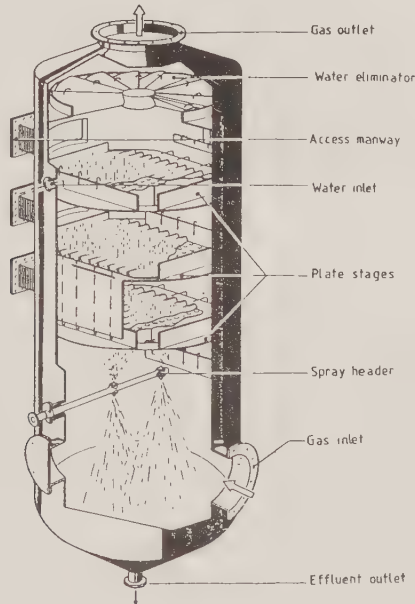


ERL

International consulting group providing specialist advice on environment and resources. Staff include scientists, engineers, economists, management strategists, sociologists, systems experts, technical researchers.

ERG (AIR POLLUTION CONTROL) LTD

Stephenson Way
Three Bridges
Crawley
W Sussex RH10 1TN
Tel: 0293 34751
Telex: 87509



Manufacturers of turnkey systems for removal and control of air pollution from dust, fume and industrial odours - comprising cyclones, packed towers, impingement tray scrubbers, Venturi scrubbers, demisters, dust collectors, fume extraction systems.
Water treatment plant, effluent treatment equipment available inhouse.

ERWIN SICK OPTIC ELECTRONIC LTD

Waldkirch House
39 Hedley Road
St Albans AL1 5BN
Tel: 0727 31121
Fax: 0727 56767
Telex: 263631



Non-contacting, in situ cross stack instruments for measurement of dust, opacity, SO₂, NO_x, new "Filterwatch" to provide bag filter users with early warning of bag failure.

FERGUSON & TIMPSON LTD

Thistle House
Selinas Lane
Dagenham
Essex RM8 1TB
Tel: 01 593 7611
Fax: 01 595 9241
Telex: 23371

Fluid sealing materials and products, flexible foams, noise control materials and acoustic enclosures, engineering maintenance products and protective clothing.

FIELD STUDIES COUNCIL RESEARCH CENTRE

Fort Popton
Angle
Pembroke
Dyfed SA71 5AD
Tel: 0646 641404
Fax: 0646 641425
Telex: 9312131768



Specialists in environmental impact assessments and monitoring, research and consulting in biological, chemical and physical environmental science.

FILTERMIST INTERNATIONAL LTD

Faraday Drive
Stourbridge Road
Bridgnorth
Shropshire WV15 5BA
Tel: 0746 765361
Fax: 0746 766882
Telex: 339002 HOCCOM G

Manufacturers of a full range of liquid and air filtration products for manufacturing industry.

GENERAL COMBUSTION LTD

Brookers Road
Billingshurst
West Sussex RH14 9SA
Tel: 0403 782091
Telex: 87416 GENCO G

Thermal oxidation of fumes with heat recovery, thermal oxidation of vent gases.

GRASEBY ANALYTICAL LTD

Park Avenue
Bushey
Watford
Herts WD2 2BW
Tel: 0923 816166
Fax: 0923 240285
Telex: 923010



Manufacturers of analytical equipment for organic vapours in laboratory and environmental monitoring - fixed and portable vapour detection equipment, data systems, vapour generators for production of standard atmosphere.

HONEYWELL CONTROL SYSTEMS LTD

Energy Products Division
Charles Square
Bracknell
Berks RG12 1EB
Tel: (0344) 424555
Fax: (0344) 416240
Telex: 847064

Honeywell

Manufacturers of air cleaners; valves for hot, cold water and steam; temperature and pressure control; instrumentation; energy management systems.

HOSOKAWA MICRON LTD

Rivington Road
Whitehouse Industrial Estate
Runcorn
Cheshire WA7 3DS
Tel: 0928 710101
Fax: 0928 714325
Telex: 628051

Manufacturers of bag filter units, gas scrubbers, cyclones and pneumatic conveyance systems for air pollution control applications.

HOVAL FARRAR LTD

Northgate
Newark
Notts NG24 1JN
Tel: 0636 72711
Fax: 0636 73532
Telex: 37164 HOVAL G

Hoval

Range of incinerators for destruction of problem wastes, including hospital wastes, handling 200 kg to 20,000 kg per day. Matching range of waste heat recovery boilers for steam or hot water. High duty thermal reactor available to suit most makes of incinerator to overcome problem emissions.

HRS PROCESS ENGINEERING LTD

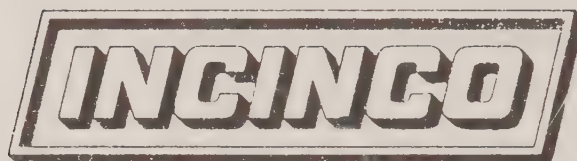
HRS House
PO Box 230
Watford
Herts WD1 2DW
Tel: 0923 32335
Fax: 0923 30266
Telex: 923326



A design, sales and manufacturing company offering a wide range of modern heat exchangers, electric heaters, centrifuge modules, large or small process systems.

THE INCINERATOR COMPANY LTD

Howard Road
Eaton Socon
Huntingdon
Cambs PE19 3ER
Tel: 0480 213171
Fax: 0480 405333
Telex: 32337



Standard and special purpose incinerators and energy recovery systems for solid and liquid wastes including industrial, clinical, chemical, municipal, security, institutional, commercial and governmental establishments.

JENWAY LTD

Gransmore Green
Felsted
Dunmow
Essex CM6 3LB
Tel: 0371 820122
Fax: 0371 821083
Telex: 817766

Manufacturers of a comprehensive range of scientific instruments including pH, conductivity, temperature, humidity, flame photometers, spectrophotometers.

JOHN BROWN ENGINEERING LTD

Clydebank
Dunbartonshire G81 1YA
Tel: 041 952 2030
Fax: 041 952 5327

Turnkey contractor, offering a range of services for water and effluent applications, including design,

construction and finance packages, process engineering and refurbishment works. Experts in bioprocesses applied to sludge and effluent treatment, municipal potable water treatment and ICA engineering.

JONES AND ATTWOOD LTD

Titan works
Stourbridge
W. Midlands DY8 4LR
Tel: 0384 392181
Fax: 0384 371937
Telex: 338120

JONES+ATTWOOD

Manufacturers of catalytic incinerators, lo-cat hydrogen sulphide removal systems and purafil dry scrubbers to maintain air quality down to the low parts per billion range.

KANE-MAY LTD

Swallowfield
Welwyn Garden City
Herts AL7 1JP
Tel: 0707 331051
Fax: 0707 331202
Telex: 94015711 KANE G



Manufacturers of portable electronic instruments.

KENT INDUSTRIAL MEASUREMENTS LTD

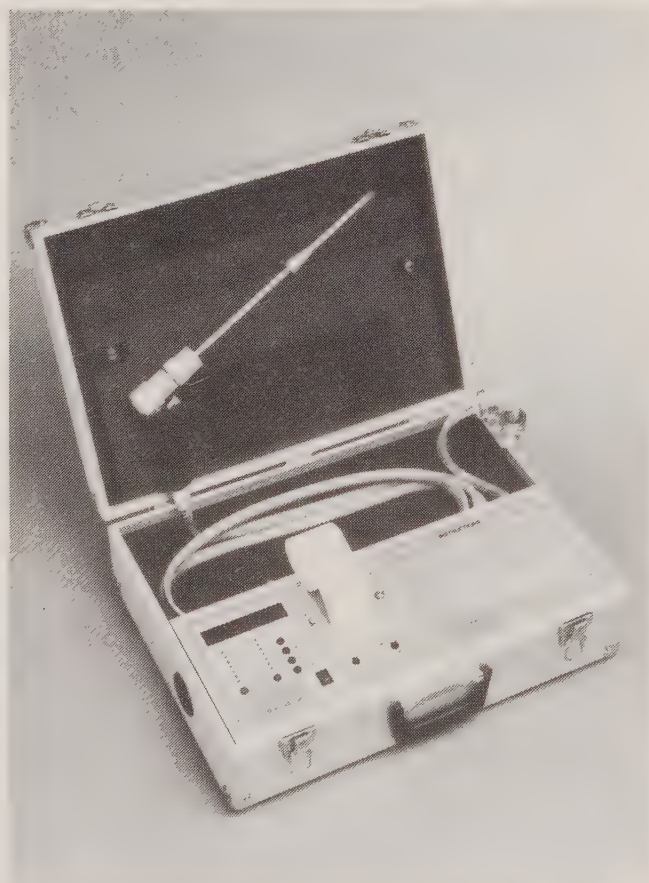
Howard Road
Eaton Socon
St Neots
Huntingdon
Cambridgeshire PE19 3EU
Tel: 0480 75321
Fax: 0480 217948
Telex: 32676 FOSCAM G

Manufacturers of liquid and gas analysers, flowmeters, recorders and controllers.

LAND COMBUSTION LTD

Stubley Lane
Dronfield
Sheffield S18 6NQ
Tel: 0246 417691
Fax: 0246 290274
Telex: 547360

LAND combustion



Specialists in combustion and pollution monitoring. Portable and in situ analysers for NO_x, SO₂, CO, O₂ and acid dewpoint; continuous monitors for opacity and dust density measurement.

LODGE-COTTRELL

George Street Parade
Birmingham B3 1QQ
Tel: 021 200 2333
Fax: 021 200 2555
Telex: 338458

Lodge-Cottrell

DRESSER

Designers and manufacturers of spray dry scrubber systems for refuse incinerator plants, precipitators and a large range of air pollution control equipment, including bag filters, bag houses and cyclones.

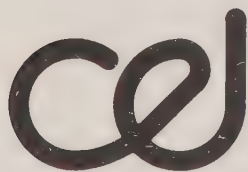
THE LONDON IONISER CENTRE

65 Endell Street
Covent Garden
London WC2H 9AJ
Tel: 01 836 0251

Advice on/sales of ionisers.

LUCAS CEL INSTRUMENTS LTD

35 Bury Mead Road
Hitchin
Herts SG5 1RT
Tel: 0462 422411
Fax: 0462 422511
Telex: 826615 CEL G



Manufacturers of acoustical and vibration instrumentation. Products range from noise dose meters to complete airport noise monitoring systems.

LYNE, MARTIN AND RADFORD

The Public Analyst's Laboratory
25/27 Britten Road
off Elgar Road South
Reading
Berks RG2 OAU
Tel: 0734 868877
Fax: 0734 872614

Chemical, microbiological analysis and microscopy of air, water and other environmental samples. NAMAS accredited for asbestos.

MEDIVAC

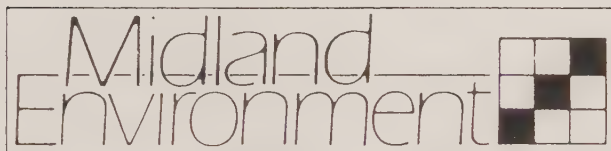
Taylormaid Products Ltd
20 Bridge Green
Prestbury
Cheshire SK10 4HR
Tel: 065 582 7922
Fax: 062 582 7922



Manufacturers of vacuum cleaners with certified absolute filtration. Suitable for medical, commercial and domestic use.

MIDLAND ENVIRONMENT LTD

Aston Science Park
Love Lane
Birmingham B7 4BJ
Tel: 021 359 0981 ext. 5388
Fax: 021 359 0433
Telex: 334535 BMTECH G



Comprehensive range of research and consultancy services on environmental, health and pollution problems - air, soil, water monitoring and analysis, computer mapping and modelling, noise monitoring and prediction, waste generation and disposal surveys, recycling, remote sensing, environmental impact assessment, nature conservation surveys, health promotion research.

NATIONAL INDUSTRIAL FUEL EFFICIENCY SERVICE LTD (NIFES)

NIFES House
Sinderland Road
Broadheath
Altrincham
Cheshire WA14 5HQ
Tel: 061 928 5791
Fax: 061 926 8718
Telex: 669069 NIFESL G



Energy conservation, water conservation, plant efficiency, environmental control, testing for particulate emissions from boilers, furnaces and industrial processes; COSHH, CHP appraisals and project design; waste disposal studies and plant design, energy from waste, project management.

NEGRETTI AUTOMATION LTD

Stocklake
Aylesbury
Bucks HP20 1DR
Tel: 0296 395931
Fax: 0296 86400
Telex: 83285 (NEGZAM G)

Air pollution monitoring, control systems, industrial weighing systems.

NEOTRONICS LTD

Parsonage Road
Takeley
Bishops Stortford
Herts CM22 6PU
Tel: 0279 870182
Fax: 0279 870377
Telex: 817126

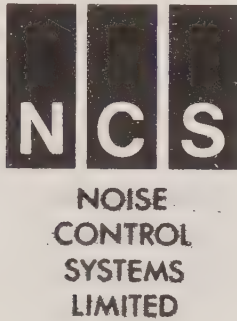


Specialists in gas monitoring instrumentation for environmental emission control, energy conservation, personal safety and process measurement and control applications. Combustion

efficiency and environmental monitors provide the means to run heat generating systems at optimum burn and reduce toxic emissions.

NOISE CONTROL SYSTEMS LTD

Ascot Drive
Derby DE2 8ST
Tel: 0332 360811
Fax: 0332 290465



Noise control consultancy and equipment.

NORDISTRIBUTION LTD

The Shaw Barn
Whitesmith
Nr E. Hoathly
Lewes, East Sussex BN8 6JD
Tel: 0825 872188
Fax: 0825 872628

Boilers and combustion equipment, oil, gas, waste, from small to large, emission control including grit arrestors, filters etc.

NOVENCO AEREX LTD

Tundry Way
Chainbridge Road
Blaydon on Tyne NE21 5SN
Tel: 091 414 4511
Fax: 091 414 1240

Airconditioning and heating equipment

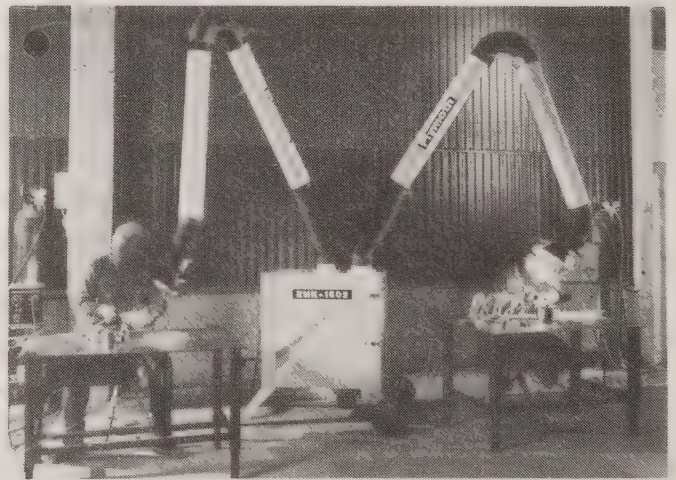
PARSONS PLASTICS (R&D) LTD

Parsons House
Leamore Lane
Bloxwich
W. Midlands WS2 7EB
Tel: 0922 404318
Fax: 0922 495991
Telex: 335259

Manufacturers and marketers of fume scrubbing, wet scrubbing, carbon absorption and incineration equipment.

JOHN PLYMOUTH LTD

Marley Way
Southam Road
Banbury
Oxon OX16 7RL
Tel: 0295 259311
Fax: 0295 271750
Telex: 312242 MIDTLX G



Specialist manufacturers of fume extraction and filtration equipment for welding fumes, oilmist, grinding dust and fumes from many other industrial and chemical processes. All extraction arms, fans and filters are compatible, therefore systems from the most simple to the very sophisticated can be produced using standard products.

P & S FILTRATION LTD

Broadway Mill
Haslingden
Rossendale
Lancashire BB4 4EJ
Tel: 0706 213421
Fax: 0706 211397
Telex: 63127 NEOTEX G



Manufactures of woven and needled fabrics from all types of synthetic fibres. Supplied on the roll or made-up sleeve, bag or cloth form for use in fabric dust collectors/filters used in wet filtration e.g. effluent treatment.

PULSAR INSTRUMENTS

Bridlington Road Industrial Estate
Hunmanby
North Yorkshire YO14 0PH
Tel: 0723 891662
Fax: 0723 500117
Telex: 527579G

Specialists in simple to use accurate industrial sound level and dosimeters, including some designed for international use, versions are available to meet the survey & industrial grades of measurement.

QUANTITECH LTD

75 Garamonde Drive
Wymbush
Milton Keynes MK8 89DD
Tel: 0908 564141
Telex: 827560

Specialists in the sales and after sales service of environmental pollution monitors, distributors for ozone, NO-NO_x, SO₂ and CO analysers, portable IR gas analysers, OVA ionisation flame detectors and a portable NO analyser with a detection limit of 5ppt.

RAPRA TECHNOLOGY LTD

Shawbury
Shrewsbury
Shropshire SY4 4NR

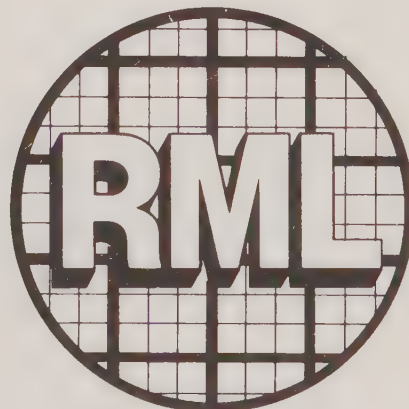
RAPRA

TECHNOLOGY LTD.

Air pollution consultants.

RICHARDS, MOOREHEAD AND LAING LTD

3 Clwyd Street
Ruthin
Clwyd LL15 1HF
Tel: 08242 4366
Fax: 08242 5450



Engineering, Environmental and landscape consultants, specialising in investigation of soil and water contamination, design of remedial measures and reclamation schemes for derelict and contaminated land.

ROBERTSON GROUP PLC

Ty'n-y-Coed

Llandudno

Gwynedd LL30 1SA

Tel: 0492 81811

Fax: 0492 83416

Telex: 61216/617150 ROBRES G



Principal services: general consultancy in relation to air quality; air monitoring; control of airborne hazards, stack emission monitoring and control; asbestos.

RODELL CHIMNEYS LTD

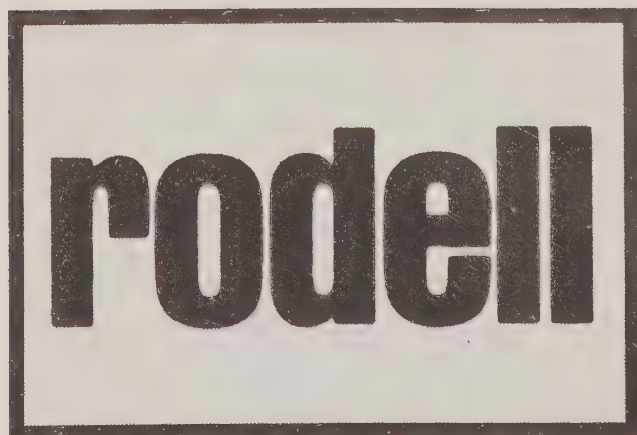
Industrial Estate

Brecon

Powys LD3 8LA

Tel: 0874 3723/4/5

Fax: 0874 3725



The design, manufacture, erection, maintenance, inspection & demolition of all types of industrial chimneys and associated works.

SERVOMEX (UK) LTD

Jarvis Brook

Crowborough

East Sussex TN6 3DU

Tel: 08926 2181

Fax: 08926 62253

Telex: 95113 TAYSER G

Servomex

Manufacturers of a range of fixed and portable oxygen and infra-red analysers, process gas chromatographs for monitoring a variety of toxic and combustible gases. Cover - oil refineries, chemical plants, power stations, flue gas, vehicle exhaust.

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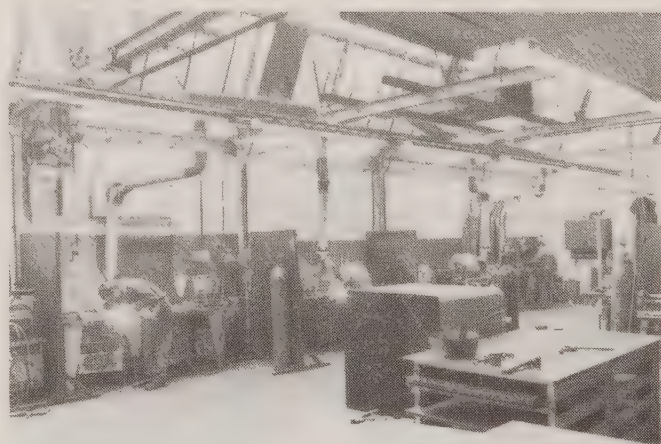
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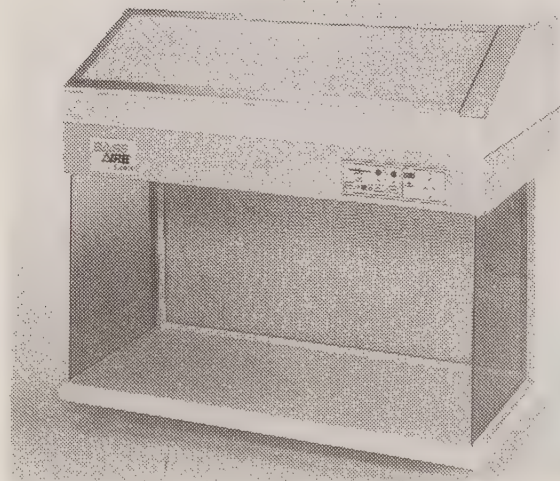
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Jones and Attwood Ltd
Parsons Plastics (R&D) Ltd
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Dr FHH Valentin

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Jones and Attwood Ltd

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Kane-May Ltd

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Jones and Attwood Ltd
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Rigby
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Land Combustion
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Technica Ltd
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Thomson Laboratories
Thermo Electron Ltd
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Robertson Group plc
Servomex (UK) Ltd

ANALYSIS APPARATUS: AIR IONS

Robertson Group plc

ANALYSIS APPARATUS: CHEMICALS

Graseby Analytical Ltd

Robertson Group plc

Servomex (UK) Ltd

ANALYSIS APPARATUS: FUELS

Robertson Group plc

ANALYSIS APPARATUS: GASES

Bruel and Kjaer Ltd

Casella London Ltd

Combustion Developments Ltd

Draeger Ltd

Kent Industrial Measurements Ltd

Land Combustion

Quantitech Ltd

Robertson Group plc

Servomex (UK) Ltd

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Cirrus Research Ltd

Lucas Cel Instruments Ltd

ANALYSIS APPARATUS: PARTICLES/POWDERS

Robertson Group plc

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Kent Industrial Measurments Ltd

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Negretti Automation Ltd

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Negretti Automation

BACTERIA SAMPLING EQUIPMENT

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Thomson Laboratories

BADGES: GAS SAMPLING

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Thomson Laboratories

BAG HOUSES

AAF Ltd

ERG Air Pollution Control Ltd

Lodge Cottrell

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Parsons Plastics (R&D) Ltd

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BLOWERS

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BOILERS: GAS FIRED

Nordistribution Ltd

BOILERS: INDUSTRIAL

Cadogan Consultants
Nordistribution Ltd

BOILERS: SOLID FUEL

Cadogan Consultants
Nordistribution Ltd

**BOILERS: INDUSTRIAL
WASTE-FIRED**

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BOILERS: PACKAGED, OIL FIRED

Nordistribution Ltd

BOILERS: STEAM

Cadogan Consultants
Nordistribution Ltd

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BURNERS: GAS

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BURNERS: OIL

Airoil Flaregas Ltd
General Combustion Ltd

BURNERS: SOLID FUEL

Nordistribution Ltd

BURNERS: WASTE FIRED

General Combustion Ltd
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Envair (UK) Ltd
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Environmental Resources Ltd
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CONTROLLERS: pH
Jenway Ltd
Kent Industrial Measurements Ltd

CONTROLLERS: REMOTE
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Combustion Developments Ltd
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DETECTORS: SMOKE
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Draeger Ltd
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Casella London Ltd
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Enviro Technology Ltd
Erwin Sick Optic Electronic Ltd
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Negretti Automation
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Field Studies Council Research Centre
Graseby Analytical Ltd
Lucas Cel Instruments Ltd
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Richards Moorehead & Laing Ltd
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Field Studies Council Research Centre
Lucas Cel Instruments Ltd
Midland Environment Ltd
Richards Moorehead & Laing Ltd
Robertson Group plc

Technica Ltd
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Negretti Automation

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Parsons Plastics

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Parsons Plastics
Novenco Aerex Ltd

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Filtermist International Ltd
P&S Filtration Ltd
Tilghman Wheelabrator
WL Gore & Associates Ltd

FILTER PAPER

AAC Eurovent Ltd
Whatman Ltd

FILTERS

AAC Eurovent Ltd
Envair (UK) Ltd
Tilghman Wheelabrator
Ultrafilter Ltd
Whatman Ltd
W L Gore & Associates Ltd

FILTERS: AIR

AAC Eurovent Ltd
AAF Ltd
Envair (UK) Ltd
John Plymouth Ltd
Novenco Aerex Ltd
Trox Brothers Ltd
Whatman Ltd
WL Gore & Associates Ltd

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Ultrafilter Ltd

FILTERS: DUST

AAC Eurovent Ltd
AAF Ltd
Carter Industrial Products Ltd
DCE Ltd
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Ultrafilter Ltd
WL Gore & Associates Ltd

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John Plymouth Ltd
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FILTERS: OIL MIST

Donaldson Torit
Filtermist International Ltd
Ultrafilter Ltd

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Honeywell Control Systems Ltd
Ultrafilter Ltd
Whatman Ltd
WL Gore & Associates Ltd

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Filtermist International Ltd
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Ultrafilter Ltd
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CONVEYING PLANT**

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Carter Industrial Products Ltd
DCE Ltd
Tilghman Wheelabrator
W L Gore & Associates Ltd

**FLUE GAS DUST MONITORING
DEVICES**

Combustion Developments Ltd
Dionex Ltd
Erwin Sick Optic Electronic Ltd
Land Combustion
Robertson Group plc

**FLUE GAS DUST MONITORING
DEVICE (CEGB TYPE)**

Erwin Sick Optic Electronic Ltd

**FLUE GAS DUST SAMPLING
EQUIPMENT**

Bristol Industrial & Research Associates Ltd
Casella London Ltd
Robertson Group plc

FLUE GAS MONITORING EQUIPMENT

Draeger Ltd

FLUE GAS TREATMENT

CMB Engineering

DCE Ltd

Lodge-Cottrell

Nordistribution Ltd

W L Gore & Associates Ltd

FLUIDISED BED SYSTEMS

Cadogan Consultants

General Combustion Ltd

Nordistribution Ltd

FUEL EFFICIENCY ADVISORY SERVICE

BCRA Scientific and Technical Services
Ltd

NIFES Consulting Group

FUGITIVE DUST SAMPLING EQUIPMENT

Wardell Armstrong

FUME EXTRACTION FANS

Donaldson Torit

Parsons Plastics

John Plymouth Ltd

FUME REMOVAL EQUIPMENT

AAF Ltd

Carter Industrial Products Ltd

CMB Engineering

Donaldson Torit

Dustraction Ltd

ERG Air Pollution Control Ltd

General Combustion Ltd

Parsons Plastics

John Plymouth Ltd

Tilghman Wheelabrator

United Air Specialists (UK) Ltd

GAS BURNERS

Airoil Flaregas

GAS CLEANING PLANT

John Brown Engineering Ltd

Lodge cottrell

Parsons Plastics

Tilghman Wheelabrator Ltd

GAS COOLERS

Carter Industrial Products Ltd

CMB Engineering

GAS DETECTORS

Bedfont Technical Instruments Ltd

Bruel and Kjaer (UK) Ltd

Casella London Ltd

Draeger Ltd

Land Combustion

Neotronics Ltd

Quantitech Ltd

Servomex (UK) Ltd

GAS FLOW INDICATORS

Enviro Technology Ltd

GAS SCRUBBERS AND WASHERS

AAF Ltd

Cadogan consultants

Carter Industrial Products Ltd

Hosokawa Micron Ltd

Lodge cottrell

Parsons Plastics Ltd

Dr FHH Valentin

GRILLS, LOUVRES etc.

Trox Brothers Ltd

GRIT ARRESTORS

Ambuco Process Equipment Ltd

Nordistribution Ltd

HEAT EXCHANGERS

AAC Eurovent Ltd

Carter Industrial Products Ltd

CMB Engineering

HRS Process Engineering Ltd

Titanium Fabricators Ltd

Novenco Aerex Ltd

HEAT PUMPS

AAC Eurovent Ltd
AAF Ltd
Novenco Aerex Ltd

HEAT TRANSFER SYSTEMS

AAC Eurovent Ltd
Carter Industrial Products Ltd
Novenco Aerex Ltd

HEATERS: AIR

Novenco Aerex Ltd

HEATERS: FAN

AAC Eurovent Ltd
Novenco Aerex Ltd

HEATERS: LIQUID PHASE

General Combustion Ltd

HEAVY METAL ANALYSERS

Thermo Electron Ltd

**HIRE OF AIR POLLUTION
MONITORING**

INSTRUMENTATION
Enviro Technology Ltd

HUMIDIFIERS

Air Improvement Centre Ltd
Biocomfort Ltd

HUMIDITY CONTROLLERS

Honeywell Control Systems Ltd
Jenway Ltd
Sontay Ltd

HUMIDITY RECORDERS

Bruel & Kjaer (UK) Ltd
Kent Industrial Measurements Ltd

HYDROGEN SULPHIDE

ABSORBERS

Jones & Attwood Ltd

HYDROGEN SULPHIDE

ANALYSERS

Quantitech Ltd
Thermo Electron Ltd

HYDROCARBON ANALYSIS

Field Studies Council Research Centre

INCINERATORS

CMB Engineering
General Combustion Ltd
Hoval Farrar Ltd
The Incinerator Company Ltd
Jones & Attwood Ltd
Parsons Plastics Ltd

INDICATORS: FLOW

Kent Industrial Measurements Ltd

INDICATORS: HUMIDITY

Jenway Ltd
Ventureprise Ltd

INDICATORS: pH

Jenway Ltd
Kent Industrial Measurements Ltd
Ventureprise Ltd
Whatman Ltd

INDICATORS: SMOKE DENSITY

Combustion Developments Ltd
Erwin Sick Optic Electronic Ltd
Land Combustion

INDICATORS: SO_x

Combustion Developments Ltd
Erwin Sick Optic Electronic Ltd

INDICATORS: SOUND LEVEL

Alfred Peters Ltd
C Air (UK) Ltd
Cirrus Research Ltd
Lucas Cel Instruments Ltd
Pulsar Instruments

INDUSTRIAL BOILERS

Nordistribution Ltd

INSTRUMENTS: GAUGES, METERS

Etc

Kane-May Ltd

Sontay Ltd

Trox Brothers Ltd

INSULATION: ACOUSTICS

Noise Control Systems Ltd

KITS: ANALYSIS, TESTING, SAMPLING

Casella London Ltd

Robertson Group plc

SKC Ltd

LABORATORY FUME CABINETS

Bassaire Ltd

Envair (UK) Ltd

Weiss Klimatechnik Ltd

LABORATORY INSTALLATIONS

Parsons Plastics Ltd

Robertson Group plc

Weiss Klimatechnik Ltd

LANDFILL GAS ASSESSMENT

Wardell Armstrong

LEAK DETECTORS

Casella London Ltd

Graseby Analytical Ltd

Lucas Cel Instruments Ltd

Neotronics Ltd

Quantitech Ltd

MARINE MONITORING

Field Studies Council Research Centre

MEASUREMENT & DETECTION EQUIPMENT

Alfred Peters Ltd

C Air (UK) Ltd

Cirrus Research Ltd

Lucas Cel Instruments Ltd

Pulsar Instruments

Ventureprise Ltd

MECHANICAL COLLECTORS

Ambuco Process Equipment Ltd

Carter Industrial Products Ltd

MEMBRANE FILTRATION

W L Gore & Associates Ltd

MERCURY VAPOUR MONITORS

Quantitech Ltd

Robertson Group plc

METAL FUME DETECTORS

Draeger Ltd

Robertson Group plc

METEOROLOGICAL INSTRUMENTS

Casella London Ltd

Ventureprise Ltd

Thomas Walker & Son Ltd

METEOROLOGICAL STATIONS

Air Improvement Centre Ltd

Casella London Ltd

Ventureprise Ltd

METERS: SOUND LEVEL

Alfred Peters Ltd

Bruel & Kjaer (UK) Ltd

Casella London Ltd

C Air (UK) Ltd

Cirrus Research Ltd

Lucas Cel Instruments Ltd

Pulsar Instruments

MOBILE LABORATORIES

Casella London Ltd

Enviro Technology Ltd

Thomson Laboratories

MONITORING EQUIPMENT

Alfred Peters Ltd
Briel & Kjaer (UK) Ltd
Casella London Ltd
Enviro Technology Ltd
General Combustion Ltd
Land Combustion
Lucas Cel Instruments Ltd
Negretti Automation
Quantitech Ltd
Robertson Group plc

NOISE CONTROL CONSULTANTS

Building Research Establishment
Casella London Ltd
Clayton Bostock Hill & Rigby
AR Coppen & Partners
Environmental Resources Ltd
Midland Environment Ltd
Noise Control Systems Ltd
Robertson Group plc
Sound Attenuators Industrial Ltd
Technica Ltd
Thomson Laboratories Ltd
Travers Morgan Consulting Group
Wardell Armstrong

NOISE CONTROL MATERIALS

Ferguson & Timpson Ltd
Noise Control Systems Ltd
Sound Absorption Ltd
Sound Attenuators Industrial Ltd

NOISE SUPPRESSION

Noise Control Systems Ltd
Sound Attenuators Industrial Ltd

NOISE/VIBRATION ATTENUATION

C Air UK Ltd
Dustraction Ltd
Lucas Cel Instruments Ltd
Noise Control Systems Ltd
Parsons Plastics (R&D) Ltd
Sound Attenuators Industrial Ltd
Trox Brothers Ltd

NOISE/VIBRATION:

COMMUNICATIONS SYSTEMS

Lucas Cel Instruments Ltd

NOISE/VIBRATION:

CONTROL ENGINEERS

Acoustical Investigation & Research
Organisation Ltd
Noise Control Systems Ltd
Robertson Group plc
Sound Attenuators Industrial Ltd
Technica Ltd

NOISE/VIBRATION:

MEASURING EQUIPMENT

Alfred Peters Ltd
Briel & Kjaer (UK) Ltd
Cirrus Research Ltd
Lucas Cel Instruments Ltd
Negretti Automation
Pulsar Instruments
Robertson Group plc

NOISE/VIBRATION:

PROTECTIVE DEVICES

Sound Attenuators Industrial Ltd

NOZZLES: SPRAY

Dust Suppression International Ltd

OCCUPATIONAL HYGIENE SERVICE

Casella London Ltd

ODOUR ABSORPTION

Jones & Attwood Ltd
Parsons Plastics (R&D) Ltd
Dr FHH Valentin

ODOUR ADSORPTION

ERG Air Pollution Control Ltd
Jones & Attwood Ltd
Parsons Plastics (R&D) Ltd
Trox Brothers Ltd
Dr FHH Valentin

ODOUR CONTROL

Casella London Ltd
Cremer & Warner
Jones & Attwood Ltd
Robertson Group plc
Technica Ltd
Dr FHH Valentin
Wardell Armstrong

ODOUR CONTROL: CATALYTIC COMBUSTION

Jones & Attwood Ltd

OIL BURNERS

Airoil Flaregas

OIL MIST ELIMINATORS

Carter Industrial Products Ltd
Filtermist International Ltd
John Plymouth Ltd

OIL SPILL CONTINGENCY PLANNING

Field Studies Council Research Centre

OIL SPILL RESPONSE

Field Studies Council Research Centre

OVENS: INDUSTRIAL

CMB Engineering

OXIDES OF NITROGEN ANALYSERS

Combustion Developments Ltd
Draeger Ltd
Enviro Technology Services Ltd
Erwin Sick Optic Electronic Ltd
Land Combustion
Quantitech Ltd
Robertson Group plc
Servomex (UK) Ltd
Thermo Electron Ltd

OXYGEN ANALYSERS

Draeger Ltd
Enviro Technology Ltd
Jenway Ltd
Kent Industrial Measurements Ltd
Land Combustion
Neotronics Ltd
Robertson Group plc
Servomex (UK) Ltd

OZONE ANALYSERS

Draeger Ltd
Enviro Technology Ltd
Quantitech Ltd
Robertson Group plc
Thermo Electron Ltd

pH APPARATUS

Jenway Ltd
Robertson Group plc

PARTICLE SIZE ANALYSIS FACILITIES

Robertson Group plc

PIPELINE EQUIPMENT AND SERVICES

Wardell Armstrong

POLLUTION CONTROL ADVISORY SERVICES

BCRA Scientific and Technical Services Ltd
Berridge Environmental Laboratories Ltd
Casella London Ltd
Cremer & Warner
Environmental Resources Ltd
Environmental Technology Centre
Industrial Services
Field Studies Council Research Centre
Robertson Group plc
Technica Ltd
Travers Morgan Consulting Group
Dr FHH Valentin
Wardell Armstrong

**POLLUTION MONITORING
SERVICE**

Berridge Environmental Laboratories Ltd

PROCESS INSTRUMENTATION

Kent Industrial Measurements Ltd

Negretti Automation

PUMPS: AIR SAMPLING

SKC Ltd

**RADIATION DETECTION AND
MONITORING**

Honeywell Control Systems Ltd

Robertson Group plc

Thermo Electron Ltd

Ventureprise Ltd

RECORDERS

Kent Industrial Measurements Ltd

**REMOTE AIR POLLUTION
ANALYSIS**

Enviro Technology Ltd

**RESEARCH & DEVELOPMENT
FACILITIES**

Field Studies Council Research Centre

Midland Environment Ltd

Parsons Plastics (R&D) Ltd

WL Gore & Associates Ltd

RESPIRATORS

Draeger Ltd

RESPIRATOR HELMETS

Draeger Ltd

ROOF EXTRACTOR UNITS

Novenco Aerex Ltd

ROOF VENTILATORS: PVC

Novenco Aerex Ltd

SAFETY EQUIPMENT

Casella London Ltd

Envair (UK) Ltd

Robertson Group plc

SCRUBBERS

AAC Eurovent Ltd

AAF Ltd

Ambuco Process Equipment Ltd

Carter Industrial Products Ltd

ERG Air Pollution Control Ltd

Lodge-Cottrell

Parsons Plastics (R&D) Ltd

Dr FHH Valentin

SEDIMENT ANALYSIS

Field Studies Council Research Centre

SEPARATORS: GASES

Carter Industrial Products Ltd

SEPARATORS: LIQUID

Carter Industrial Products Ltd

SEWAGE TREATMENT PLANT

AAC Eurovent Ltd

John Brown Engineering Ltd

SILENCERS

Noise Control Systems Ltd

Parsons Plastics (R&D) Ltd

Trox Brothers Ltd

SITE INVESTIGATION

BCRA Scientific and Technical Services Ltd

Casella London Ltd

Midland Environment Ltd

RAPRA Technology Ltd

Richards Moorehead & Laing Ltd

Robertson Group plc

Technica Ltd

Travers Morgan Consulting Group

Wardell Armstrong

SLEEVES & TUBES (FOR FABRIC FILTERS)

P&S Filtration Ltd
Tilghman Wheelabrator Ltd
WL Gore & Associates Ltd

SMOKE DENSITY GAUGES & METERS

Combustion Developments Ltd
Erwin Sick Optic Electronic Ltd
Land Combustion

SMOKE INDICATORS

Combustion Developments Ltd

SO₂ SAMPLERS

Draeger Ltd

SOLVENT RECOVERY PLANT

Titanium Fabricators Ltd

SPRAYING APPARATUS FOR DEODORANTS ETC

ERG Air Pollution Control Ltd

STACK EMISSIONS: MONITORING EQUIPMENT

Bristol Industrial Research Associates Ltd
Combustion Developments Ltd
Draeger Ltd
Enviro Technology Ltd
Erwin Sick Optic Electronic Ltd
Graseby Analytical Ltd
Land Combustion Ltd
NIFES Consulting Group
Neotronics Ltd
Quantitech Ltd
Robertson Group plc
Thermo Electron Ltd
Whatman Ltd

STOKERS: INDUSTRIAL

Nordistribution Ltd

SULPHUR DIOXIDE ANALYSERS

Enviro Technology Ltd
Erwin Sick Optic Electronic Ltd
Land Combustion
Quantitech Ltd
Robertson Group plc
Servomex (UK) Ltd
Thermo Electron Ltd

TANKS AND TANK LININGS

Parsons Plastics (R&D) Ltd
Titanium Fabricators Ltd

TELEMETRY SYSTEMS

Enviro Technology Ltd

TEMPERATURE RECORDERS

Casella London Ltd
Honeywell Control Systems Ltd
Kane-May Ltd
Kent Industrial Measurements Ltd
Ventureprise Ltd

THERMOMETERS, INDICATORS ETC

Casella London Ltd
Jenway Ltd
Kane-May Ltd
Negretti Automation
Dr FHH Valentin
Ventureprise Ltd

THERMOSTATS

Honeywell Control Systems Ltd

THERMOSTATIC RADIATOR VALVES

Honeywell Control Systems

UNIT DUST COLLECTORS

AAC Eurovent Ltd
Carter Industrial Products Ltd
DCE Ltd
Donaldson Torit

UNIT HEATERS

Novenco Aerex Ltd

VACUUM CLEANERS: INDUSTRIAL

Medivac

**VACUUM CLEANERS:
COMMERCIAL**

Medivac

VACUUM CLEANERS: DOMESTIC

Medivac

VACUUM CLEANERS: MEDICAL

Medivac

VENTILATORS

Novenco Aerex Ltd

VENTURI SCRUBBERS

AAC Eurovent Ltd

AAF Ltd

Ambuco Process Equipment Ltd

Carter Industrial Products Ltd

ERG Air Pollution Control Ltd

Parsons Plastics (R&D) Ltd

Dr FHH Valentin

WARM AIR HEATING SYSTEMS

AAC Eurovent Ltd

WASHERS: AIR OR GAS

Biocomfort Ltd

WASTE DISPOSAL SPECIALISTS

Cadogan Consultants

Casella London Ltd

CMB Engineering

Environmental Resources Ltd

Robertson Group plc

Technica Ltd

Wardell Armstrong

WASTE FUEL BOILER PLANT

Nordistribution Ltd

WASTE HEAT RECOVERY

CMB Engineering

HRS Process Engineering Ltd

John Brown Engineering Ltd

Nordistribution Ltd

Weiss Klimatechnik Ltd

**WASTE MATERIAL DISPOSAL
FURNACES**

General Combustion Ltd

WASTE PURIFICATION

Dr FHH Valentin

**WATER FILTRATION:
AUTOMATIC - SELF CLEANING**

Carter Industrial Products Ltd

WATER FILTRATION: BAG

Carter Industrial Products Ltd

**WATER FILTRATION:
HYDROCYCLONES**

Carter Industrial Products Ltd

**WATER FILTRATION: MULTI -
MEDIA - SELF CLEANING**

Carter Industrial Products Ltd

WATER TREATMENT PLANT

Carter Industrial Products Ltd

ERG Air Pollution Control Ltd

**WATER & WASTEWATER
MANAGEMENT**

Casella London Ltd

WET ARRESTORS

Carter Industrial Products Ltd

FUTURE NSCA CONFERENCES

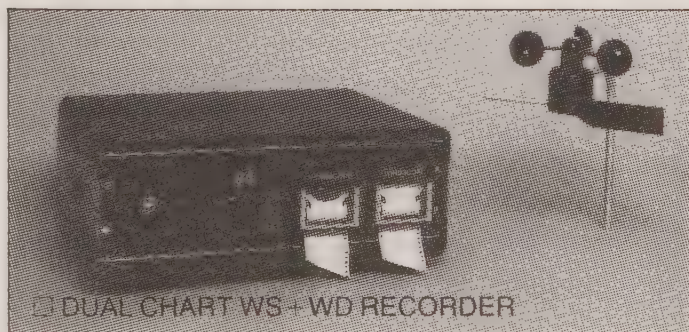
57th Clean Air Conference and Exhibition **BRIGHTON**

15 - 18 October 1990

58th Clean Air Conference and Exhibition **EASTBOURNE**

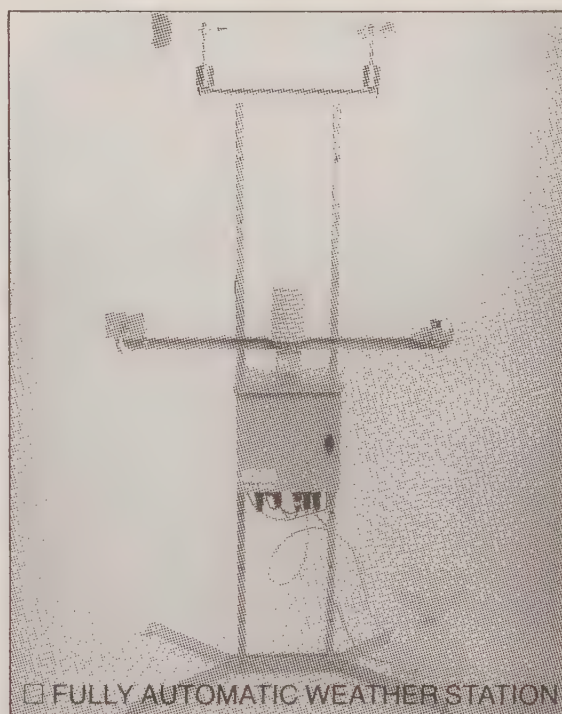
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AICB

**16th WORLD CONGRESS
INTERNATIONAL ASSOCIATION AGAINST NOISE, AICB**

6 - 8 JUNE 1990 - BRIGHTON

THE FUTURE FOR NOISE CONTROL

Towards an Interdisciplinary Approach

Wednesday 6 June

Environment, Planning and Health Effects + Posters

Thursday 7 June

Buildings, Neighbourhood Noise and Planning + Posters

Friday 8 June

Industrial Noise and Transport Noise

50 Papers and Posters are planned for the Congress, as well
as an exhibition of noise control techniques and equipment

For full details of the programme and registration form
contact the Organising Secretariat

**NATIONAL SOCIETY FOR CLEAN AIR
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Fax: 0273 735802

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